One-On-One

- 1. C1 Q. What does the term hippophile describe?
 - A Horse lover
 - S. DET p. 140

220/3

- 2. C2 Q. What is the four-beat gait of the American Saddlebred horse that is similar to but slower than the rack?
 - A. Slow gait (also accept stepping pace)
 - S. DET p. 249; Evans p. 178; ES p. 81

640/2

- 3. C3 Q. What term describes when the rail or top element of a jump is dislodged by a horse in an over-fences competition?
 - A. Knockdown (also accept "rail down" or fault)
 - S. DET p. 16

1075/2

- 4. C4 Q. Two horses simultaneously scratching each other on the neck and over the withers and back would be an example of which behavior category?
 - A. Epimeletic behavior
 - S. Evans pp. 675-676; DET p. 97

5. C1	Q. Which vitamin is known as the "sunshine vitamin"?		
	A. Vitamin D		
	S. Lewis p. 48 740/2		
6. C2	Q. What term refers to a horse that has too much slope to its pastern?		
	A. Coon-footed		
	S. HIH 220-6 600/3		
7. C3	Q. All of the lower teeth are located in which bone?		
	A. Mandible		
	S. Kainer plate 41 410/2		
8. C4	Q. Identify one additional piece of tack that would be added to the McClellan saddle to make it more suitable for packing.		
	A. Breast collar or breeching (only need to give one answer)		
	S. YLM BEG 118-1L 1020/3		

Q. What is the country of origin for the Connemara Pony? 9. C1 A. Ireland S. Evans p. 65 200/2 10. C2 Q. What is the base coat color of a blue roan? A. Black (also accept brown or liver chestnut) S. ES p. 47; Evans p. 81 200/2 Q. What term describes the slope of the land when completing an 11. C3 "environmental analysis" of the site for a new horse facility? A. Topography S. HIH 310-1 920/3 Q. What is the average speed for the trot or jog? 12. C4 A. 6 to 8 miles per hour (accept anything within this range) 640/2 S. ES p. 72 End One-On-One **Begin Open Questions** Q. Which parasite causes habronemiasis or summer sores? 13. A. Stomach worm S. Lewis p. 405 835/3

- 14. Q. What is the **main** symptom of a horse that has grazed red clover that is affected with the mold commonly known as "black patch"?
 - A. Excessive salivation or slobbering
 - S. Lewis p. 109; Evans p. 256

780/2

Toss Up - Bonus Attached

- 15. Q. Identify **two** types of hitches used to secure a load on a pack saddle.
 - A. Single, double, triple or half diamond; Squaw or Arizona
 - S. HIH 1125-1

1020/3

Bonus Question

- 16. Q. (Bonus) What are the **four** criteria used to evaluate stallion semen?
 - A. Volume, concentration, motility and morphology
 - S. Evans p. 365

520/3

Resume Open Questions

- 17. Q. What horse is the foundation sire for the Morgan breed?
 - A. Justin Morgan (also accept Figure)
 - S. Evans p. 36

200/2

- 18. Q. In general, foals weaned at 4 months should be fed a diet containing what percent protein?
 - A. 16 percent protein
 - S. Evans p. 220

760/3

19. Q. Cirrhosis is a chronic disease that affects which organ?

- A. Liver
- S. Lewis p. 385

830/3

Toss Up - Bonus Attached

- 20. Q. In general, what is the **main** difference when performing the dressage movements known as the passage and the piaffe?
 - A. The passage is a cadenced trot with a marked period of suspension. The piaffe is a collected trot "in place". (The passage is with forward motion and the piaffe is without forward movement)
 - S. DET p. 205, p. 211

1090/3

Bonus Question

- 21. Q. (Bonus) Identify the **three** classifications of muscles.
 - A. Smooth, skeletal and cardiac
 - S. Evans p. 99

410/3

Resume Open Questions

- 22. Q. What term refers to the type of striding leg interference where the hind foot on one side strikes the diagonal forefoot?
 - A. Cross-firing (occurs in pacers)
 - S. Evans p. 179

640/2

- 23. Q. What is the purpose of an antipyretic medication?
 - A. Fever-reducing medication
 - S. DET p. 13

805/3

24. Q. Which current breed of horse was formerly known as The American Trotting Horse?

- A. Standardbred
- S. Evans p. 28 200/2
- 25. Q. You do the math... If a horse should be fed at 2% of its body weight in total feed each day, how much total feed should a 1000 pound horse receive in a day?
 - A. 20 pounds of total feed
 - S. ES p. 106

700/3

Toss Up – Bonus Attached

- 26. Q. Identify the fat-soluble vitamins.
 - A. Vitamins D, E, A and K (must give all answers to be correct)
 - S. Evans p. 200

740/2

Bonus Question

- 27. Q. (Bonus) What are the two general types of mortality insurance?
 - A. Full Mortality (All Risks Mortality) and Specified (Named) Peril
 - S. HIH 1340-1

940/3

Resume Open Questions

- 28. Q. What term refers to the practice of altering the teeth of an older horse in an attempt to make it sell as a younger horse?
 - A. Bishoping
 - S. DET p. 28

- 29. Q. Which equine disease is caused by an equid herpes virus?
 - A. Rhinopneumonitis
 - S. HIH 610-1; Evans p. 598

850/2

- 30. Q. Buck-kneed and calf-kneed are the two primary conformation defects that occur in the knees. Which of these defects is more common and considered to be less serious?
 - A. Buck-kneed
 - S. HIH 230-5

600/3

- 31. Q. What is the name for the small snaffle bit in a Weymouth bridle?
 - A. Bridoon (also accept bradoon)
 - S. HIH 1100-10; DET p. 39

1070/2

Last Question of the Round

- 32. Q. What international organization governs the rules and regulations for equine activities such as international driving, show jumping, three-day events and dressage?
 - A. FEI (Federation Equestre Internationale) (also accept International Equestrian Federation)
 - S. DET p. 105

Round 2 One-On-One

1. C1

1. C1	Q. What is the anatomical	term for the inner layer of the uterus?	
	A. Endometrium		
	S. HIH 910-3 4	80/3	
2. C2	Q. Who is the foundation s	sire for the American Saddlebred horse?	
	A. Denmark		
	S. Evans p. 38	200/3	
3. C3	Q. Where is the location o	f the swing team in a 6-horse hitch?	
	A. The middle team (middle pair)		
	S. DET p. 261	050/2	
4. C4		etly, which hind foot should remain more ompleting a spin to the right in a reining	
	A. Right hind foot		
	S. DET p. 213	010/3	
5. C1		e 32 pairs or 64 chromosomes. les does the Przewalski's horse have?	
	A. 33 pairs or 66 chromos	omes	
	S. Evans p. 449	550/3	
6. C2	Q. A "tie-down" is the We	estern term for what type of martingale?	
	A. Standing martingale		
	S. HIH 1100-10	1070/2	

7. C3	Q. Sweet clover poisoning results in altered blood clotting and a deficiency of which vitamin?
	A. Vitamin K
	S. Lewis p. 51 740/2
8. C4	Q. What term describes a horse that is gray with a basic coat color of red?
	A. Rose gray
	S. ES p. 45 300/3
9. C1	Q. What is the common term for the 1 st premolar teeth?
	A. Wolf teeth
	S. Lewis p. 177 835/2
10. C2	Q. In regards to racing, what term describes the area where the horses are saddled and viewed before the race?
	A. Paddock
	S. Lewis p. 398; DET p. 201 1040/2
11. C3	Q. What breed of pony is the descendant of the survivors of a shipwreck off the coast of Virginia?
	A. Chincoteague
	S. DET p. 55 200/2

- 12. C4 O. What anatomical structure is located in the vertebral foramen?
 - A. Spinal cord
 - S. Kainer plate 7

420/3

End One-On-One

Begin Open Questions

- 13. Q. What is the **minimum** width of a gate that will be used to move equipment in and out of a pasture?
 - A. At least 12 feet wide
 - S. Evans p. 771

920/3

- 14. Q. Illness, fever and/or trauma to the testes would result in a lower sperm production. Normal production would not be restored until approximately how many days after the problem has been resolved?
 - A. Approximately 65 days (accept anything in 60-65 range)
 - S. HIH 920-2

520/3

Toss Up – Bonus Attached

- 15. Q. Identify **two** of the three basic models of artificial vaginas.
 - A. Colorado, Missouri or Fujihara
 - S. Evans p. 376

500/3

Bonus Question

- 16. Q. Identify **three** types of overo or "non-tobiano" paint or pinto horse colors.
- A. Frame overo, Calico, Sabino, Splashed white, (Do not accept tovero as it is a combination of tobiano and overo)
 - S. ES pp. 49-50; HIH 1040-3

Resume Open Questions

- 17. Q. You do the math... A horse that is 66 inches tall would be how many hands tall?
 - A. 16.2 hands tall
 - S. DET p. 129

600/3

- 18. Q. In regards to watercourse management, what is the purpose of increasing the vegetative cover in drainage ditches or in buffer strips between steep slopes and waterways?
 - A. Slows down runoff water, increases absorption of runoff water, filters animal waste out of runoff water, filters soil out of runoff water, helps prevent soil erosion (only need to give one answer)
 - S. HIH 360-4

920/2

- 19. Q. Man-O-War and Secretariat were both known by what "nickname"?
 - A. "Big Red"
 - S. Evans p. 22

200/2

Toss Up – Bonus Attached

- 20. Q. The facial portion of the skull consists of what **three** cavities?
 - A. Orbital (surrounds the eye); nasal (nose) and oral (mouth)
 - S. Evans p. 90

410/3

Bonus Question

- 21. Q. (Bonus) Identify five of the micro or trace minerals required by horses?
 - A. Cobalt, copper, iodine, iron, manganese, selenium, zinc
 - S. ES p. 131

750/3

Resume Open Questions

- 22. Q. What organization governs the rules for reining horses?
 - A. NRHA (National Reining Horse Association)
 - S. HIH 183D-1

230/2

- 23. Q. The administration of a strangles vaccine on a farm with recurrent outbreaks of the disease would be an example of treating horses with a prophylactic medication. What is the purpose of a prophylactic medication?
 - A. To prevent a disease
 - S. DET p. 221

805/3

- 24. Q. What farrier tool is used to remove nails that are broken off even with the web of the shoe or to expand the nail holes in a shoe?
 - A. Pritchel
 - S. Evans p. 727

900/2

- 25. Q. What term refers to an organism whose chromosomes carry two identical members of a given allele pair?
 - A. Homozygous
 - S. ES p. 90

550/2

Toss Up – Bonus Attached

- 26. Q. Identify the three basic types of bits.
 - A. Curb, snaffle and hackamore
 - S. HIH 1100-8

Bonus Question

- 27. Q. (Bonus) Identify **three** considerations and/or potential hazards associated with feeding alfalfa pasture or hay.
 - A. Blister beetle poisoning

Use with caution in older horses

Use with caution in horses with decreased kidney function

Use with caution in horses with decreased liver function

(alfalfa contains higher amounts of protein and calcium)

Use with caution in horses with equine metabolic disease

Use with caution in horses with insulin resistance

Potential for DOD (Developmental Orthopedic Diseases) due to the imbalance of Calcium and Phosphorus and increased amount of protein resulting in rapid growth

Mycotoxin toxicosis

Respiratory problems (more likely to be dusty or moldy)

Colic (if excessive consumption of lush green alfalfa)

Increased incidence of tying-up (due to increased calcium)

Increased incidence of synchronous diaphragmatic flutter (thumps)

(due to increased calcium)

Need to balance Calcium: Phosphorus ratio

S. Lewis p. 64, 192, 214, 286, 365

780/3

Resume Open Questions

- 28. Q. In general, what structures in the horse are named for their action, shape and/or attachments?
 - A. Muscles
 - S. Kainer plate 16

410/3

- 29. Q. For fire safety, a building for hay storage should be located at least how many feet from any other structure?
 - A. At least 100 feet away
 - S. Evans p. 781

- 30. Q. What structure of the horse's foot does the farrier trim with the nippers?
 - A. Hoof wall
 - S. Evans p. 742

900/2

- 31. Q. What is the common term for the bacterial disease known as Tetanus?
 - A. Lock jaw
 - S. ES p. 172

820/2

Last Question of the Round

- 32. Q. What is the common term for the Probstmayria vivipara and Oxyuris equi parasites?
 - A. Pinworms
 - S. Evans p. 640

Round 3 One-On-One

- 1. C1 Q. Horse shoe nails have a shank that is flat on one side and the other side is concave. When driving a nail, the nail should be started with which side facing the outside of the hoof?
 - A. Flat side should be outside
 - S. Evans p. 745

900/3

- 2. C2 Q. Which type of martingale combines the action of both the snaffle rein and draw reins?
 - A. German martingale
 - S. DET p. 120

1000/3

- 3. C3 Q. What is the common term for the fungal infection commonly found in the girth area and known as Dermatophytosis?
 - A. Ringworm (also accept girth itch)
 - S. ES p. 187

835/2

- 4. C4 Q. In regards to equine business, what does the Latin expression "caveat emptor" refer to?
 - A. Let the buyer beware
 - S. DET p. 52

940/3

- 5. C1 Q. The largest percentage of which mineral is found in the myoglobin or hemoglobin in the horse's body?
 - A. Iron
 - S. Lewis p. 38

750/3

6. C2 Q. Which takes more time to pass from the horse's stomach

into the small intestine...hay or water?

- A. Hay
- S. ES p. 111

430/2

- 7. C3 Q. What rodeo event are you competing in if you are "bulldogging"?
 - A. Steer wrestling
 - S. DET p. 43

1060/3

- 8. C4 Q. Osselets are calcifications that occur as a result of traumatic arthritis located in which joint?
 - A. Fetlock joint
 - S. HIH 455-5

- 9. C1 Q. Which category of nutrient is the **primary** concern in regards to maintaining body weight?
 - A. Energy (also accept carbohydrates and fats but must give both answers to be correct)
 - S. AYLM ADV 304-2L

710/3

- 10. C2 Q. How often should horses be offered water when trailering long distances?
 - A. Every 3-4 hours
 - S. AYLM ADV 301-2L

960/3

- 11. C3 Q. Which pony breed has adapted to living in a climate with harsh winds and rain by developing fleshy upper and lower eyelids known as "hooded eyes"?
 - A. Exmoor
 - S. HIH 157B-2

200/3

- 12. C4 Q. What is the ideal percentage for the moisture content of hay when it is baled?
 - A. 15-20% (accept anything within this range)
 - S. Lewis p. 69

780/3

End One-On-OneBegin Open Questions

- 13. Q. What type of gait defect usually occurs in a horse with a toe-out or splay-footed conformation?
 - A. Dishing (also accept winging in)
 - S. Evans p. 181

- O. A synthetic breed is started by crossing two or more breeds 14. and then breeding the first generations of the crossbred animals. What synthetic pony breed was developed from crossing the Shetland, Welsh, Hackney and Standardbred breeds?
 - A. Trottingbred
 - S. Evans p. 67

200/3

Toss Up – Bonus Attached

- 15. O. (Two Part) What directional term refers to a structure located closer to the head and what term refers to a structure closer to the tail?
 - A. Cranial (head); Caudal (tail)
 - S. Kainer plate 2

400/3

Bonus Question

Q. (Bonus) Identify four factors that would result 16. in a horse that is underweight or too thin.

A. Parasites

Malabsorption

Milk production (lactation)

Inadequate amount of feed

Hard work

Poor quality feed

Poor teeth

Illness

Too much competition in group feeding Starvation

S. Evans pp. 295-296

700/4

Resume Open Questions

- Q. You do the math... How many furlongs did your horse run 17. in the Belmont Stakes which is a 1 ½ mile race?
 - A. 12 furlongs (8 furlongs per mile)
 - S. Evans p. 20; DET p. 27

- 18. Q. What color results from a double dilution of chestnut?
 - A. Cremello
 - S. Evans p. 475

550/3

- 19. Q. Are most poisonous plants "more" or "less" toxic as the plant matures?
 - A. Less toxic
 - S. Lewis pp. 303-304, etc.

770/3

Toss Up - Bonus Attached

- 20. Q. What are the **three** types of trail rides?
 - A. Social (pleasure), competitive and endurance
 - S. DET p. 273

1070/4

Bonus Question

- 21. Q. (Bonus) There are 12 cranial nerves. Identify four of these nerves.
 - A. Optic

Facial

Olfactory

Vestibulocochlear

Oculomotor

Glossopharyngeal

Trochlear

Vagus

Trigeminal

Accessory (spinal root)

Abducent

Hypoglossal

S. Kainer plate 78

420/3

Resume Open Questions

- 22. Q. When comparing the nutrient value of timothy and orchard grass in a hay sample, which grass provides the highest percent of crude protein?
 - A. Orchard grass
 - S. HIH 760-5

- 23. Q. Identify **one** of the two breeds that were crossed to form the Azteca breed.
 - A. Andalusian and Quarter Horse
 - S. DET p. 19

200/3

- 24. Q. What type of parasite usually only occurs in horses that are grazed in pastures with donkeys?
 - A. Lungworms
 - S. Lewis p. 159

835/3

- 25. Q. The heart bar shoe is used on a horse with laminitis to aid in pain relief and healing. To what structure does the heart bar shoe temporarily transfer the weight to?
 - A. Frog
 - S. HIH 515-4

900/3

Toss Up - Bonus Attached

- 26. Q. What is the recommended **minimum** height for perimeter **and** dividing fences?
 - A. Perimeter at least 60 inches (5 feet) Dividing at least 54 inches (4 ½ feet)
 - S. Evans p. 760

Bonus Question

27. Q. (Bonus) Give the entire zoological classification for the horse.

A. Kingdom

Animalia Chordata Phylum

Class

Mammalia

Order

Perissodactyla

Family

Equidae

Genus

Equus

Species

Equus caballus

S. ES p. 15; Evans p. 13

100/4

Resume Open Questions

28. Q. Which type of vision has been essential for the horse's survival by increasing its ability to see potential predators?

A. Monocular vision

S. ES p. 57

825/3

29. Q. What is the common name for the proximal interphalangeal joint?

A. Pastern joint

S. Evans p. 689

410/3

30. O. What type of tick can cause death in the horse as a result of starvation due to "tick-bite paralysis"?

A. Rocky Mountain wood tick (also accept Rocky Mountain tick and Dermacentor andersoni)

S. AYLM ADV 300-3L; HIH 415-7

- 31. Q. What is the most common symptom of black walnut poisoning?
 - A. Laminitis (founder)
 - S. Lewis p 323

770/2

Last Question of the Round

- 32. Q. What is a tandem hitch?
 - A. A 2 horse hitch where the horses are hitched one in front of the other
 - S. DET p. 263

1050/3

maintaining body weight?

- A. Energy (also accept carbohydrates **and** fats but must give **both** answers to be correct)
- S. AYLM ADV 304-2L

Round 4 One-On-One

- 1. C1 Q. What is the **correct** term for the type of behavior exhibited by horses that is also referred to as mimicry, contagious or infectious behavior?
 - A. Allelomimetic
 - S. Evans p. 676

910/3

- 2. C2 Q. At what age does the Galvayne's Groove extend halfway down the upper corner incisor tooth?
 - A. Age 15 years
 - S. HIH 240-4

835/3

- 3. C3 Q. (Two Part) Describe how to determine the capillary refill time including what would be considered a normal value for a healthy horse.
 - A. Press your finger against the horse's gums for a few seconds then release and count the seconds until normal color returns to the gums. Normal is 1 to 3 seconds (accept any answer that indicates range of 3 seconds or less). (Must include both how to and normal value to be correct answer)
 - S. ES p. 163

800/3

- 4. C4 Q. What is the **scientific name** for the species of bots that lays its black eggs on the short hairs on the lips?
 - A. Gastrophilus hemorrhoidalis
 - S. Evans p. 634

835/4

- 5. C1 Q. During exercise blood flow to the skin increases. What is the physiological purpose for this occurrence?
 - A. Improves the efficiency of heat loss (helps to cool the horse)
 - S. Evans p. 114

6. C2 Q. Which type of Encephalomyelitis can be trans from "horse to horse"?			be transmitted
	A. Venezuelan		
	S. Evans p. 169	820/3	
7. C3	Q. What mineral is necess thyroid gland?	sary for proper	function of the
	A. Iodine		
	S. ES p. 138	740/2	
8. C4	Q. The canter is more coll gallop or run. What is observed when compare	the other major	or difference
	A. The canter is a 3 beat g	gait and the gall	lop is a 4 beat gait
	S. ES pp. 74-78	640/2	
9. C1	Q. What is gonitis?		
	A. Inflammation of the st	ifle joint	
	S. DET p. 123	810/3	
10. C2	Q. What does the term "fr	ee- legged" pa	cer describe?
	A. A pacer that races with	out hobbles	
	S. DET p. 114	1040/3	

- 11. C3 Q. Approximately 1-4 days before foaling secretions from the mare's teats will become thicker, more cloudy and cover the end of the nipples. What term commonly refers to this occurrence?
 - A. Waxing or waxing-over
 - S. Lewis p. 244

510/2

- 12. C4 Q. What escape vice is described as rhythmic shifting of the weight from one forefoot to the other while swinging the head?
 - A. Weaving
 - S. Lewis p. 371

930/3

End One-On-One

Begin Open Questions

- 13. Q. Exacta and Perfecta are both types of wagering in which the bettor selects the first and second place finishers in a race. What is the **difference** in how the horses must finish to collect on these two types of wagers?
 - A. Exacta-horses must finish in the "exact" order selected Perfecta-horses must finish in first or second place without regard to the actual order in which they pass the post
 - S. DET p. 100, 209

1040/3

- 14. Q. What type of bacteria causes Strangles?
 - A. Streptococcus equi
 - S. Lewis p. 173

Toss Up – Bonus Attached

- 15. Q. What are the correct anatomical terms for the **three** skeletal structures that form the thoracic cavity?
 - A. Thoracic vertebrae (also accept vertebrae); ribs and sternum
 - S. Evans p. 97

410/3

Bonus Question

- 16. Q. (Bonus) Name **five** types of Western saddles.
 - A. Pleasure, Trail, Endurance, Reining, Barrel Racing, Roping, Cutting, Show (Western Pleasure/Equitation)
 - S. HIH 1100-4

1010/3

Resume Open Questions

- 17. Q. NAERIC is a non-profit organization that promotes the partnership between the profession of horse breeders and women's health care. What do the initials NAERIC stand for?
 - A. North American Equine Ranching Information Council
 - S. HIH 1970-1

230/4

- 18. Q. How would the sympathetic nervous system affect the heart rate?
 - A. It would increase the heart rate
 - S. Kainer plate 80

800/3

- 19. Q. You are working as a farrier and reach **behind your back** to get the tool you need from your shoeing box. How will you determine whether you have the pull offs or the nippers?
 - A. Pull offs have knobs on the ends of the handles
 - S. HIH 530-1

Toss Up - Bonus Attached

- 20. Q. (Two Part) Activated charcoal and a saline laxative are usually administered to horses that are being treated for plant poisoning. Give the purpose for **each** of these medications.
 - A. Activated charcoal to prevent further absorption (also accept to bind with the toxins); Saline laxative to quickly remove the toxin from the digestive tract
 - S. Lewis pp. 342-343

770/4

Bonus Question

- 21. Q. (Bonus) When referring to a horse's vision, where are the **four** "blind spots" located?
 - A. Front of the head (directly in front of the horse until 4-6 feet away)
 Under the head and neck
 Over the head, neck and back (topline)
 Directly behind the horse
 - S. ES pp. 58-60

825/4

Resume Open Questions

- 22. Q. What term refers to the dental condition found mainly in older horses that is a result of uneven wear of the teeth and gives a "wave-like" appearance to the teeth when viewed from the side?
 - A. Wave mouth
 - S. DET p. 288

430/4

- 23. Q. Grain, or concentrate, should not account for more than what percent of a horse's diet?
 - A. Not more than 40 percent
 - S. ES p. 107

- 24. Q. What sex-linked disease results in a deficiency of clotting factor VIII (clotting factor 8)?
 - A. Hemophilia A (Hemophilia)
 - S. Evans p. 511

550/3

- 25. Q. What **two** things are **mandatory** when transporting horses across **all** state lines?
 - A. Negative Coggins Test and current health certificate (also accept Bill of Good Health or Certificate of Veterinary Inspection) (Brand inspection, etc. would not be considered a correct answer because it is not required by all states)
 - S. YLM ADV 301-2L

960/2

Toss Up - Bonus Attached

- 26. Q. Identify the **three** stallions that are traditionally considered to be the foundation sires for the Thoroughbred breed.
 - A. Godolphin Arabian, Darley Arabian and Byerly Turk
 - S. Evans p. 21

200/3

Bonus Question

27. Q. (Bonus) The prefixes "a" or "an" refer to a deficiency or absence of a structure or substance. What do the following **four** terms describe?

Aniridia

Agalactia

Anhydrosis

Anoxia

A. Aniridia – absence of the iris
 Agalactia – inability of mare to produce milk
 Anhydrosis – deficiency or lack of sweating
 Anoxia – lack of oxygen

S. DET p. 4, 11, 13; ES p. 100

Resume Open Questions

- 28. Q. In which type of competition do horses perform without any personal contact from a rider or handler, as in circus acts?
 - A. Liberty classes
 - S. DET p. 168

1010/3

- 29. Q. You do the math... Your horse's resting heart rate is 32 beats per minute. The stroke volume or amount of blood pumped during each heart contraction is approximately 1 liter. What is the cardiac output for this horse?
 - A. Approximately 32 liters per minute (stroke volume x heart rate)
 - S. Evans p. 111

440/3

- 30. Q. For what period of time is the ovum viable after ovulation occurs?
 - A. 12 to 24 hours (accept anything within this range)
 - S. Evans p. 396

510/3

- 31. Q. In regards to color genetics, which color is considered to be dominant...black or bay?
 - A. Bay
 - S. Evans p. 479

550/3

Last Question of the Round

- 32. Q. What condition does your horse have if it has pediculosis?
 - A. Lice infestation
 - S. DET p. 207

Round 5 One-On-One

- 1. C1 Q. What is the **anatomical** term for the muscle that is used by the horse for shaking off flies?
 - A. The panniculus muscle
 - S. DET p. 203

410/3

- 2. C2 Q. Which light breed of horse consistently outlives other breeds, is in its prime at age 20 and often lives well past 30?
 - A. Arabian
 - S. HIH 153B-2

200/3

- 3. C3 Q. What term refers to the yellow pasty feces that indicate that the foal has passed the meconium?
 - A. "Milk feces"
 - S. HIH 9502

500/4

- 4. C4 Q. Epinephrine is a hormone that stimulates the sympathetic nervous system and affects blood flow and muscle contractions. What endocrine gland produces epinephrine?
 - A. Adrenal gland
 - S. Evans p. 127; DET p. 98

490/3

- 5. C1 Q. What is the difference in the design of a cowboy shoe and a polo shoe?
 - A. The inside rim on the web of a polo shoe is raised above the outside rim
 - S. Evans p. 737

6. C2	Q. What is the minimum height for the ceiling in a horse stall?		
	A. At least 8 feet high		
	S. Evans p. 778 920/3		
7. C3	Q. What horse is considered the foundation sire for the American Albino breed?		
	A. Old King		
	S. Evans p. 53 200/4		
8. C4	Q. What is the common term for the ossification of the lateral cartilages in the distal phalanx?		
	A. Sidebones		
	S. Kainer plate 12 620/2		
9. C1	Q. What historic event took place at Circus Maximus?		
	A. Roman chariot races		
	S. DET p. 57 100/4		
10. C2 Q. What test is performed to diagnose Equine Infection		e Infectious Anemia?	
	A. Coggins test		
	S. DET p. 60 800/3		
11. C3	Q. What secretion is produced by the buccal	glands?	
	A. Saliva		
	S. Kainer plate 47 430/4		

- 12. C4 Q. Is a horse's normal temperature higher during the day or at night?
 - A. During the day
 - S. Kainer plate 53

800/3

End One-On-One Begin Open Questions

- 13. Q. What organization do the initials AVA represent?
 - A. American Vaulting Association
 - S. HIH 185D-1

230/4

- 14. Q. The System for Scoring the Estrus Behavior in Mares rates the mare's receptivity to the stallion from 0 to 4. What score would indicate that the mare is in diestrus?
 - A. Accept score of 0 or 1 as correct answer
 - S. YLM ADV 336-1L

510/3

Toss Up - Bonus Attached

- 15. Q. (Two Part) How is the shape of the horse's pupil different in comparison to other mammals and how does the shape of the pupil benefit the horse?
 - A. The pupil is more horizontal (ex. a cat's pupil is more vertical; a human's pupil is more round)
 Gives the horse more vision over a wide horizon; enables the horse to see predators more easily (accept either as correct answer)
 - S. ES p. 56

825/4

Bonus Question

- 16. Q. (Bonus) There are many variations of the basic gray coat pattern. Identify **four** different terms that describe a gray horse.
 - A. Flea-bitten

Dapple gray

Rosettes (bursts of white on gray)

Blue or steel gray (gray on black, liver chestnut or seal brown)

Rose gray (gray on chestnut)

S. Evans p. 81: ES p. 45

300/4

Resume Open Questions

- 17. Q. The drugs Navigator and Marquis are used in the treatment of what disease?
 - A. EPM (Equine Protozoal Myeloencephalitis)
 - S. HIH 670-2

805/4

- 18. Q. You do the math... A newborn foal normally weighs 9-10% of the mare's body weight. What would be the approximate weight of a foal if the mare weighs 1200 pounds?
 - A. Approximately 108 to 120 pounds (accept anything within this range)
 - S. HIH 940-5

510/3

- 19. Q. What is the country of origin for the Cleveland Bay horse?
 - A. England
 - S. DET p. 58

200/3

Toss Up – Bonus Attached

- 20. Q. In regards to genetics, true lethals are conditions that result in embryonic death, which is death before birth. Identify **two** true genetic lethals.
 - A. Lethal dominant white (lethal white, homozygous white, dominant white) Lethal dominant roan (lethal roan, homozygous roan)
 - S. HIH 1060-4

Bonus Question

21. Q. (Bonus) Correctly identify the joint where each of the following **four** bones would be located.

Patella

Calcaneous

Olecranon

Distal sesamoid

A. Stifle (patella)

Hock (calcaneous)

Elbow (olecranon)

Coffin (distal sesamoid)

S. Kainer plates 10,14,29,30

410/4

Resume Open Questions

- 22. Q. What is the pangaré affect on color?
 - A. Results in light areas of color on the muzzle, over the eyes, on the flanks and inside the legs
 - S. Evans p. 481

310/4

- 23. Q. What **two** categories of nutrients provide energy for the horse?
 - A. Carbohydrates and fats
 - S. YLM ADV 302-1L

710/3

- 24. Q. What term describes the formation of excessive granulation tissue that may occur on healing leg wounds?
 - A. Proud flesh
 - S. YLM BEG 109-2L

- 25. Q. What term refers to when a high percentage of mares on a breeding farm have abortions due to Rhinopneumonitis?
 - A. Abortion storm
 - S. Evans p. 598

510/3

Toss Up – Bonus Attached

- 26. Q. Which **two** vitamins are not produced in the body and must be supplied entirely by the diet?
 - A. Vitamin A and Vitamin E
 - S. Lewis p. 42

740/3

Bonus Question

27. Q. (Bonus) Horses use many means to communicate. Identify what the following **four** vocal sounds indicate.

Snort

Nicker

Repeated throaty sounds by a stallion

Squeal

A. Snort-warning

Nicker-greeting

Repeated throaty sounds by a stallion-mating

Squeal-anger

S. Lewis p. 153

910/3

Resume Open Questions

- 28. Q. What is the **anatomical** term for the area of the reproductive tract in the stallion that transports spermatozoa from the epididymis to the urethra?
 - A. Vas Deferens
 - S. Evans p. 358

- 29. Q. The oribatid mite is the intermediate host for what type of internal parasite?
 - A. Tapeworm
 - S. HIH 430-4

835/3

- 30. Q. What type of stall bedding would be a good choice for a horse with heaves or horse owners with allergies?
 - A. Shredded newspaper
 - S. HIH 330-2

920/3

- 31. Q. A horse with what genetic disease would benefit from a diet that is low in potassium?
 - A. HYPP or Hyperkalemic Periodic Paralysis (also accept PIPP or Potassium Induced Periodic Paralysis)
 - S. Lewis p. 298; HIH 1060-6

700/3

Last Question of the Round

- 32. Q. What is a unicorn hitch?
 - A. Hitch with 2 horses hitched as a pair and a third horse hitched in front of them
 - S. DET p. 279

Round 6 One-On-One

- 1. C1 Q. When referring to a chestnut horse what does the term tostada describe?
 - A. A red colored horse with darker red-colored points
 - S. ES p. 41

300/4

- 2. C2 Q. What term refers to deciduous teeth that remain attached to erupted permanent teeth?
 - A. Caps
 - S. Kainer plate 48

835/2

- 3. C3 Q. What organization do the initials AQHA stand for?
 - A. American Quarter Horse Association
 - S. HIH 168B-2

230/2

- 4. C4 Q. Larking refers to unnecessarily jumping fences when participating in what equine activity?
 - A. Foxhunting
 - S. DET p. 164

5. C1	Q. What is the term for the pieces of amorphous material found in the allantoic fluid during pregnancy?
	A. Hippomanes
	S. Evans p. 342 500/3
6. C2	Q. Identify one physiological function that will increase the requirement for salt in the horse's diet?
	A. Sweating or lactation
	S. Evans p. 236; Lewis pp. 25-26 750/3
7. C3	Q. What is the term for the 7½ or 8 minute period of play in a polo match?
	A. Chukker or chukka
	S. DET p. 56 1070/4
8. C4	Q. What secretion is produced by the liver?
	A. Bile
	S. Kainer plate 54 490/3
9. C1	Q. Drainage from a three sided run-in shed to an absorption pit or grass waterway should have what percent of slope?
	A. Two percent
	S. HIH 360-3 920/3

- 10. C2 Q. What mineral helps to prevent cell damage due to oxidation and works in conjunction with Vitamin E?
 - A. Selenium

S. ES p. 140

740/3

- 11. C3 Q. When comparing the Crossbuck and Decker saddles, which saddle would have a double cinch?
 - A. Crossbuck

S. YLM BEG118-1L

1020/3

- 12. C4 Q. Which **one** of the following breeds would **not** be considered a pony breed...Galiceño, Exmoor, Falabella or Trottingbred?
 - A. Falabella (miniature horse)
 - S. DET p. 103

200/4

End One-On-One Begin Open Questions

- 13. Q. Why do lactating mares have the best chance of survival after ingesting the poisonous plant White Snakeroot?
 - A. The toxin in White Snakeroot (Tremetol) is excreted from the body by lactation
 - S. Lewis p. 320

770/4

- 14. Q. What does the term "nicking" describe in reference to the offspring from a breeding program based on linebreeding?
 - A. Offspring that are superior to their parents as a result of a particular mare/stallion cross
 - S. HIH 1080-1; DET p. 190

Toss Up - Bonus Attached

- Q. Identify two locations where you would find tactile hairs. 15.
 - A. Nostrils, lips and around the eyelids (muzzle would include both the lips and nostrils and would be considered as **one** correct answer)
 - S. Kainer plate 4

460/3

Bonus Question

- 16. O. (Bonus) Identify two advantages and two disadvantages of using sawdust or wood shavings for bedding.

A. Advantages... Less volume for disposal

Easier disposal

Seldom eaten by horses

Less labor intensive to clean

Less combustible

Less odor

Disadvantages.. More expensive

May be dusty

May cause respiratory problems (if dusty)

Be cautious of black walnut shavings

May require additional storage space

Needs to be stored indoors or in a protected area (when wet is non-absorbent and

takes a long time to dry)

S. HIH 330-1

920/4

Resume Open Questions

- 17. Q. What is a teamster's verbal cue to signal a draft horse team to turn right?
 - A. Gee (jē)
 - S. DET p. 119

- 18. Q. Muscle fibers are classified as Type I (slow-twitch) or Type II (fast-twitch). Which type of muscle fibers function aerobically and provide endurance?
 - A. Type I (slow-twitch)
 - S. HIH 840-2

410/4

- 19. Q. When performing an embryo transfer, the embryo should be collected from the donor mare on what day post-ovulation?
 - A. Day 6 (accept anything in range of day 6 to 8)
 - S. Evans pp. 411-412

510/4

Toss Up - Bonus Attached

- 20. Q. Name **two** things that adding fat to the diet has been proven to increase.
 - A. Growth, performance (work), reproductive function and milk production
 - S. ES p. 148

720/3

Bonus Question

21. Q. (Bonus) Timeline... Place the following **four** breeds in the correct order of development, Begin with the oldest breed and continue with each of the other breeds until all are in the correct timeline.

Thoroughbred

Hackney

Welsh

Arabian

- A. Arabian...Thoroughbred...Hackney...Welsh
- S. Evans p. 61

Resume Open Questions

- 22. Q. Aluminum shoes are commonly associated with racing but are also used on the front feet of horses participating in what other type of activity?
 - A. Reining, western pleasure, jumping (only need to give one answer)
 - S. HIH 515-4

900/3

- Q. You do the math...You are judging a reining class and have just finished scoring the last horse. You have given this horse a total maneuver score of + 3 ½ (plus 3 ½) and total penalties of -5 (minus 5). What would be the final score for this horse?
 - A. Final score 68 ½
 - S. HIH 183D-1

1010/3

- 24. Q. What item of tack absorbs sweat and dries quickly while keeping the horse warm after a workout?
 - A. Cooler
 - S. HIH 1100-6

1000/2

- 25. Q. What anatomical structure in the horse does the Latin word "rostrum" refer to?
 - A. Nose
 - S. Kainer plate 2

Toss Up - Bonus Attached

- 26. Q. Identify **two** types of internal parasites that horses usually develop an immunity to as they mature.
 - A. Roundworms (ascarids or Parascaris Equorum) and threadworms (Srongyloides westeri)
 - S. ES pp. 189-190; Evans pp. 630-632

835/3

Bonus Question

- 27. Q. (Bonus) Give the common and anatomical name for each of the three bones located in the foot.
 - A. Coffin or pedal bone (distal or third phalanx)
 Short pastern bone (middle or second phalanx)
 Navicular or shuttle bone (distal sesamoid)
 - S. Evans p. 686; DET p. 60, 188; Kainer plate 12

480/4

Resume Open Questions

- 28. Q. Beta-carotene is a nutritional source for which fat-soluble vitamin?
 - A. Vitamin A
 - S. Lewis p. 46

740/2

- 29. Q. Nigropallidal encephalomalacia is commonly known as the "chewing disease" because it destroys the horse's ability to ingest and chew food. Identify **one** of the two plants that cause this condition.
 - A. Russian knapweed or Yellow star thistle
 - S. Lewis p. 318

- 30. Q. What type of behavior would be exhibited by a gelding that is described as a "rig" or proud-cut horse?
 - A. Stallion-like aggressive behavior
 - S. Lewis p. 401

910/2

- 31. Q. At what location on a horse would you expect to find the swelling associated with a shoe boil?
 - A. Point of the elbow (also accept elbow)
 - S. Evans p. 163

620/3

Last Question of the Round

- 32. Q. Lethal white foal syndrome is not the same as dominant white and is associated with what color gene?
 - A. Overo gene
 - S. ES p. 98; Evans p. 513

Round 7 One-On-One

- 1. C1 Q. What breed is associated with the silver dapple color?
 - A. Shetland (also accept Rocky Mountain Horse and Kentucky Mountain Saddle Horse)
 - S. Evans p.488

330/3

- 2. C2 Q. What is the common term for laryngeal hemiplegia?
 - A. Roaring
 - S. DET p. 165

850/3

- 3. C3 Q. What is considered to be the most economical protein supplement?
 - A. Soybean meal
 - S. YLM ADV 302-2L

760/2

- 4. C4 Q. What is the name given to the person who makes the metal parts of tack such as bits, curb chains and stirrup irons?
 - A. Lorimer
 - S. DET p. 172

5. C1	Q. What enzyme is produ and helps break down	ced in the fundus of the stomach proteins?
	A. Pepsin	
	S. Kainer plate 51	430/3
6. C2	Q. During parturition, whe the delivery of the foa	nat is the most difficult part of 1?
	A. Passage or delivery of	the foal's shoulders
	S. Evans p. 422	500/3
7. C3	Q. Psoroptes equi is a mi	te that causes what type of mange?
	A. Psoroptic mange (also	accept Psoroptic scab, "scab" or "wet mange")
	S. HIH 415-8	835/4
8. C4	Q. What does the term Pr	cophet's thumb describe?
	_	n of unknown origin usually also be on the quarters
	S. DET p. 221	310/4

- 9. C1 Q. How are excess simple sugars stored in the body?
 - A. They are stored as fat
 - S. ES p. 146

730/3

- 10. C2 Q. What is the general term for markings such as a dorsal stripe, cobwebbing on the forehead, zebra stripes on the legs and a wither stripe or shadowing?
 - A. "Primitive markings"
 - S. ES p. 38

310/4

- 11. C3 Q. What breed of horse is primarily affected by the genetic lethal Combined Immunodeficiency Disease?
 - A. Arabians (and Arabian crosses)
 - S. HIH 1060-4

550/3

- 12. C4 Q. Where would you find latigo straps?
 - A. On a Western saddle (the leather straps that fasten the cinch)
 - S. DET p. 165

1000/3

End One-On-One

Begin Open Questions

- 13. Q. What breed association is described by the initials MFTHBA?
 - A. Missouri Fox Trotting Horse Breed Association
 - S. HIH 161B-2

230/4

- 14. Q. There are five different types of walks in a dressage test. Which of these would be completed with the horse on a "long rein"?
 - A. Free walk
 - S. Evans p. 174

640/2

Toss Up – Bonus Attached

- 15. Q. Identify **two** of the three breeds of horses that most hot-blooded horses can be traced to in regards to ancestry.
 - A. Arabian, Barb, Turkmene
 - S. Evans p. 17

16. Q. (Bonus) Timeline...You are a farrier and are demonstrating how to remove a shoe and trim the hoof. What is the correct order to use the following **five** farrier tools when accomplishing this task?

Nippers

Hoof knife

Clinch cutter

Rasp

Pull offs

- A. Clinch cutter...pull offs...hoof knife...nippers...rasp
- S. HIH 535-2, 535-3

900/4

Resume Open Questions

- 17. Q. Blood from what anatomical structure provides the fetus with oxygenated blood?
 - A. Placenta
 - S. Kainer plate 58

500/3

- 18. Q. What is the cry of the hunt once the fox has been sighted?
 - A. Tallyho
 - S. DET p. 262

- 19. Q. What is the term used for a gene that has the ability to mask the genetic makeup of the other gene in an allele pair?
 - A. Dominant

S. ES p. 90

550/3

Toss Up – Bonus Attached

20. Q. Trace mineralized salt is 93-98% salt. Identify **three** of the trace minerals that are also found in the trace mineralized salt.

A. Manganese

Iron

Cobalt

Copper

Iodine

Zinc

Selenium

S. YLM ADV 302-2L; Lewis p. 26

750/4

Bonus Question

- 21. Q. (Bonus) In regards to anatomy, the horse has two ileums depending on the spelling of the word. Correctly spell **and** give the specific location of **each** of the ileums.
 - A. Ileum...distal portion of the small intestine (accept small intestine) Ilium...one of the bones in the pelvis
 - S. DET p. 149; Kainer plate 28

410/430/4

Resume Open Questions

- 22. Q. What does the term teratogenic describe in regards to plant poisoning?
 - A. Compounds that cross the placenta and cause physical

defects in the fetus

S. Lewis p. 332

770/3

- 23. Q. Following the rule of thumb recommendation for adequate ventilation in a barn, a barn with 8 stalls would require how much ridge ventilation?
 - A. At least 8 feet of ridge ventilation (1 foot per horse or stall)
 - S. HIH 320-8

920/4

- 24. Q. What is the slang term for Equine Infectious Anemia?
 - A. Swamp fever
 - S. Lewis p. 175

840/3

- 25. Q. What is the common name for the anti-inflammatory medication phenylbutazone?
 - A. Bute
 - S. DET p. 43

805/3

Toss Up – Bonus Attached

- 26. Q. Identify the **two** equine diseases that are caused by a type of Clostridium bacteria.
 - A. Tetanus (Clostridium tetani) and Botulism (Clostridium botulinum)
 - S. HIH 445-2, 445-8: Lewis p. 168, p. 362

Bonus Question

- 27. Q. (Bonus). Electrical systems in a barn are often the cause of a barn fire. Identify **four** safety precautions that are recommended in regards to the electrical system.
 - A. Electrical system must meet code standards
 Panel boxes should be in a dry, dust free area; corrosive resistant
 and weather-proofed

Outlet and switch boxes should be metal

Outlet and switch boxes should have spring-loaded dust and waterproof covers

Wire should be encased in metal conduit pipe
Light fixtures should have dust and moisture-resistant covers
Any appliances (clippers, etc.) must be UL approved and grounded
Portable heaters should not be used in the barn
Heat lamps should not be placed too close to hay or bedding
Heat tapes and water tanks must have a thermostat and

S. YLM BEG 113-1L

be UL approved

920/4

Resume Open Questions

- 28. Q. What can be done to delay foaling until the veterinarian arrives if there is an indication of abnormal presentation of the foal?
 - A. Walk the mare and keep her standing
 - S. Lewis p. 245

- 29. Q. The vertebrae would be examples of what classification of bones?
 - A. Irregular bones
 - S. Evans p. 90

410/3

- 30. Q. You do the math... Carrollton Hounds hunted 15 and ½ couple hounds last week. How many hounds were in the pack?
 - A. 31 hounds
 - S. DET p. 70

1080/3

- 31. Q. What type of **shoe** is used to elevate the heels of a horse that is confined to stall rest?
 - A. Patten shoe (also accept wedge shoe)
 - S. HIH 515-5

410/3

Last Question of the Round

- 32. Q. What is the term for the breeding of animals or crossing of lines that are unrelated?
 - A. Outcrossing
 - S. HIH 1080-1

Round 8 One-On-One

- 1. C1 Q. The medication atropine is used to treat bradycardia. What is bradycardia?
 - A. Abnormally slow heart rate
 - S. DET p. 37, p. 17

805/4

- 2. C2 Q. What is the primary cause of runoff on horse farms?
 - A. Overgrazing
 - S. HIH 360-4

920/3

- 3. C3 Q. What is the common term for diarrhea?
 - A. Scours
 - S. DET p. 240

830/4

- 4. C4 Q. What vitamin deficiency is associated with a deficiency of the mineral cobalt?
 - A. Vitamin B12
 - S. Lewis p. 39

Q. You are competing in a calf-roping event. What is the name of 5. C1 the six foot long rope you are carrying and will use to tie the legs of the calf? A. Piggin' string S. DET p. 212 1060/3 Q. What is the proper term for the circular movement of 6. C2 an eye or leg? A. Circumduction S. DET p. 51 410/4 Q. What breed is noted for its excellent conformation as a 7. C3 miniature horse and was developed in Argentina? A. Falabella S. Evans p. 67 200/4 Q. What general type of equine has the lowest incidence 8. C4 of twin pregnancies? A. Pony breeds

S. Lewis p. 240

9. C1	Q. What mammal has been implicated as the reservoir or definitive host for the protozoa, Sarcocystis neurona?
	A. Opossum
	S. ES p. 174; HIH 670-1 830/4
10. C2	Q. In feeding management, what term describes the uptake of ground moisture into a bale of hay?
	A. The wicking effect
	S. YLM 710-5 700/4
11. C3	Q. What is the term for the inflammation of the bursa that is located between the thoracic vertebrae and the nuchal ligament of the neck?
	A. Fistulous withers (also accept sinus of the withers)
	S. Lewis p. 389; Kainer plate 20 810/4
12. C4	Q. What activity is described as gymnastics on the moving horse?
	A. Vaulting
	S. DET p. 281 1070/3

End One-On-One

Begin Open Questions

- 13. Q. How many times a year should pastures be mowed and chain harrowed or dragged to break up manure piles and expose parasite eggs to the elements?
 - A. Two to four times per year (accept anything within this range)
 - S. HIH 365-6

920/4

- 14. Q. Leydig cells in the stallion are responsible for the production of what **two** hormones?
 - A. Testosterone and Estrogen
 - S. HIH 920-2

480/4

Toss Up - Bonus Attached

- 15. Q. Identify **two** nutrients or additives that should be limited in the diet of a horse with liver disease.
 - A. Carbohydrates, fats, protein, fat and salt
 - S. Lewis p. 296

- 16. Q. (Bonus) You do the math...Your equine transportation company will be trailering a load of horses and will be traveling 24 hours to reach your destination. You plan to stop every 3 hours to offer the horses water and will unload the horses to allow them to rest after 18 hours. Not counting the stop at your final destination, how many stops will you make to care for the horses?
 - A. 7 stops (the 18 hour unloading stop would coincide with a stop to offer the horses water)
 - S. YLM ADV 301-2L

960/4

Resume Open Questions

- 17. Q. Why is the scarlet livery worn by foxhunting staff commonly called "pinks"?
 - A. A famous British tailor named Pinque supposedly made the first coats
 - S. DET p. 145

1080/4

- 18. Q. Hemiparesis is "weakness" on one side of the body. What does the term hemiplegia describe?
 - A. "Paralysis" on one side of the body
 - S. DET p. 137

820/4

- 19. Q. In comparison to the horse, how is the length of the estrous cycle of donkeys and ponies different?
 - A. Estrous cycles are longer (usually 25 days instead of 19-22 days)
 - S. Kainer plate 71

- 20. Q. What are the **two main symptoms** of the "Bob-tail Disease" which is a result of selenium toxicity?
 - A. Circular horizontal cracks in the hoof wall; loss of the long hair from the mane and tail (roached mane and bob-tail appearance)
 - S. Lewis p. 329

770/4

Bonus Question

- Q. (Bonus) Erosion on your pastures is affected by what four environmental factors?
 - A. Soil type (would include clay, sandy, rocky, etc.), slope of the land (topography), amount of rain or snowfall (precipitation) and vegetative cover
 - S. HIH 360-4

920/4

Resume Open Questions

- 22. Q. Would the nerves for the forelegs or hind legs originate in the brachial plexus?
 - A. Forelegs
 - S. Kainer plate 22

- 23. Q. Approximately 99% of Standardbred horses trace their ancestry to what foundation sire?
 - A. Hambletonian 10

S. Evans p. 29; HIH 171B-1

200/3

- 24. Q. If weight loss is observed in an older horse the horse's diet should be changed to a diet similar to that fed to a long yearling. What is a long yearling?
 - A. A horse more than 1 year old but not yet 2 years old
 - S. HIH 450-2; DET p. 171

700/3

- 25. Q. Identify **one** of the two types of flies that serve as intermediate hosts for the Habronema species of stomach worms.
 - A. Houseflies (Musca domestica) or Stable flies (Stomoxys calcitrans)
 - S. Evans p. 642; HIH 415-1

835/4

Toss Up - Bonus Attached

- 26. Q. Identify **two** of the four breeds of horses that are affected by the sex-linked disease Hemophilia A.
 - A. Thoroughbred, Standardbred, Quarter Horse and Arabian
 - S. HIH 1060-6; ES p. 99

5504

Bonus Question

27. Q. (Bonus) Timeline... The eruption and wear of the permanent teeth can be used to determine the age of a horse. Organize the following **four** types of permanent teeth according to the age of eruption... Canines...1st premolar...2nd molar...2nd (intermediate) incisor

- A. 1st premolar (wolf tooth) (5-6 months) 2nd molar (2 years) 2nd incisor (3 ½ years) Canines (4-5 years)
- S. Evans pp. 92093

835/4

Resume Open Questions

- 28. Q. How does the thickness of the hoof wall determine the web or width of a horse shoe?
 - A. The web or width should be twice the thickness of the hoof wall
 - S. YLM INT 221-2L

900/4

- 29. Q. In general, what does the statement "live foal" describe?
 - A. A foal that stands and nurses
 - S. DET p. 170

500/3

- 30. Q. What type of bacteria is considered the **most common** cause of infectious enterocolitis in **adult** horses?
 - A. Salmonella
 - S. HIH 660-1

830/4

- 31. Q. What is the most common material used to make bits?
 - A. Stainless steel
 - S. HIH 1100-10

Last Question of the Round

- 32. Q. What term refers to the conformation defect seen in older mares, thin mares and mares with a flat croup, high tail head and/or a tendency to be sway backed which affects fertility?
 - A. Pneumovagina (also accept "windsucking")
 - S. YLM INT 230-1L

Round 9 One-On-One

- 1. C1 Q. It is rare that a horse is poisoned by a single mouthful of a toxic plant. Name **one** of the two plants that are considered to be the exception to this rule.
 - A. Water hemlock or yew
 - S. Lewis p. 301

770/4

- 2. C2 Q. What breed of horse is most commonly associated with Equine Night Blindness?
 - A. Appaloosa
 - S. ES p.100

550/3

- 3. C3 Q. Orphan foals have a very high dietary energy requirement and should be fed how often during the first 1-2 weeks of life?
 - A. Every 2 to 4 hours
 - S. Kainer plate 69, Lewis p. 275

500/3

- 4. C4 Q. In a cutting competition, the horse and rider must demonstrate their ability to "cut" cattle and prevent them from returning to the herd. What is the time limit in this contest?
 - A. Two minutes and thirty seconds
 - S. HIH180D-1

- 5. C1 Q. In general, foals born to previously vaccinated mares would begin receiving routine vaccinations at what age?
 - A. 3 months of age (also accept 3 or 4 months due to new AAEP guidelines)
 - S. HIH 950-10

805/3

- 6. C2 Q. What is considered the **most** important factor when evaluating the quality of a forage at the time of harvest?
 - A. Stage of maturity
 - S. HIH 760-4

780/3

- 7. C3 Q. There are many different types of horse shoe nails including city, regular and countersunk. Which of these nails are most often used for handmade shoes and foreign-made shoes?
 - A. Countersunk
 - S. YLM INT 231-4L

900/4

- 8. C4 Q. What hormone would be influencing the cervix when it is flaccid, very pink and vascular, and produces a thin watery mucous?
 - A. Estrogen
 - S. HIH 910-3

9. C1	Q. What is the primary vector for the equine disease caused by the bacteria Borrelia burgdorferi?
	A. Ticks
	S. HIH 655-1 840/4
10. C2	Q. The proximal and distal sesamoid bones serve as pulleys to change the direction of which specific tendon?
	A. Deep digital flexor tendon (must specify deep not superficial) (also accept deep flexor tendon)
	S. Kainer plate 12 400/4
11. C3	Q. Identify one of the two physiological reasons for adding lysine to a horse's diet?
	A. For growth or milk production
	S. DET p. 173 760/4

- 12. C4 Q. What is the common term for aerophagia?
 - A. Windsucking (also accept cribbing)
 - S. Lewis p. 373; DET p. 72

930/4

End One-On-One

Begin Open Questions

- 13. Q. In general, when is a foal considered to be a neonate?
 - A. During the first 30 days after birth
 - S. DET p. 189

500/4

- 14. Q. What is the common name for dermatitis granulose?
 - A. Summer sores
 - S. DET p. 79

860/4

Toss Up - Bonus Attached

- 15. Q. Identify **two** ways you can promote better manure distribution in a pasture and avoid areas of heavy manure deposition.
 - A. Provide several watering sites, periodically move feeding or water sites, split pastures, rotational grazing
 - S. HIH 365-2

16. Q. (Bonus) Timeline...The estrous cycle of a mare is influenced by the action of many hormones. Starting with the beginning of the follicle development and continuing through ovulation and the eventual return to diestrus, place the following **four** hormones in the correct order for a **non-pregnant** mare...

Prostaglandin

LH (Luteinizing hormone)

Progesterone

FSH (Follicle stimulating hormone)

- A. FSH...LH...Progesterone...Prostaglandin
- S. HIH 910-6

510/5

Resume Open Questions

- 17. Q. What is indicated by the behavioral term pica?
 - A. A horse that eats unnatural substances such as bones, wood, hair, etc.
 - S. DET p. 211

910/4

- 18. Q. In regards to pasture management, identify **two** circumstances when you should keep horses off the pasture?
 - A. During pesticide spraying and fertilizing, to reduce overgrazing, when there is fresh or lush pasture, during winter, when soils are wet
 - S. HIH 360-3; HIH 360-4

- 19. Q. What is considered the major cause of death in foals less than 8 months old?
 - A. Pneumonia

S. Lewis p. 258

850/3

Toss Up - Bonus Attached

- 20. Q. (Bonus) You do the math... The Tevis Cup is a **100mile** long endurance trail ride. The race must be completed within 24 hours and there are **two mandatory 60 minute rest stops.** Your Arabian gelding completed the race in **22 hours**. What was your **average** speed in miles per hour?
 - A. 5 miles per hour
 - S. DET p. 266

1070/4

Bonus Question

- 21. Q. (Bonus) The body position a horse assumes may be indicative of illness. Identify the disease or condition that would **most** likely be present in the following **three** horses.
 - Horse # 1... A horse with a "saw-horse" stance
 - Horse # 2... A horse standing with its head and neck outstretched and resistant to flexion
 - Horse # 3... A horse that has its front feet out ahead of the body and rocks back on its hind feet, drawing them underneath the body for support
 - A. Horse # 1 Tetanus
 - Horse # 2 Strangles (also accept Choke)
 - Horse # 3 Laminitis (Founder)
 - S. ES p. 171, 172, 182: YLM ADV 334-3L; Evans p. 611

800/4

Resume Open Questions

22. Q. Are red maple leaves **more** toxic when fresh or when wilted or dried?

- A. Wilted or dried (toxic up to 30 days once dried)
- S. Lewis p. 331

770/4

- 23. Q. What is an anthelmintic?
 - A. A de-worming agent (do not accept "wormer")
 - S. YLM INT 224-3L

805/3

- 24. Q. What is the only **draft breed** recognized as a breed that originated in the United States?
 - A. The American Cream Draft Horse (also accept Cream Draft Horse or American Cream) (do **not** accept Cream Horse or American Cream Horse as these terms refer to a color breed and not specifically a draft horse)
 - S. HIH 155B-1; DET p.8

200/4

- 25. O. What is the common term for urticaria?
 - A. Hives (also accept protein bumps)
 - S. Lewis p. 393, 407

850/4

Toss Up – Bonus Attached

- 26. Q. Identify **two** of the three bones that form the orbital cavity of the skull.
 - A. Frontal bone, zygomatic bone and lacrimal bone
 - S. Kainer plate 41; DET p. 247

Bonus Question

27. Q. (Bonus) Name **five** factors that you would consider when choosing bedding for a stall.

A. Absorptive capacity

Price

Ease of handling

Availability

Clean up and disposal

Dustiness

Texture (slippery when wet, etc.)

Storage requirements

Irritability from dust or components causing allergies

Type of horses (foaling stalls, etc.)

S. HIH 330-2

920/4

Resume Open Questions

28. Q. What is the minimum ceiling height for a breeding shed?

A. Minimum of 12 to 15 feet high (accept anything within this range)

S. Evans p. 781

920/3

29. Q. What is the common name for Recurrent Exertional Rhabdomyolysis?

- A. Tying-Up
- S. HIH 460-3

800/4

30. Q. What is another name for the activity described as "heading and heeling"?

- A. Team roping
- S. DET p. 263

1060/4

31. Q. What is the main function of the large colon?

- A. Water absorption
- S. ES p. 113

430/3

Last Question of the Round

- 32. Q. During strenuous exercise which muscle receives the largest increase in blood flow?
 - A. Diaphragm muscle
 - S. Evans p. 114

Round 10 One-On-One

- 1. C1 Q. What rare genetic disease results in foal death due to infection and the characteristic appearance of foals with missing patches of hair or skin at birth?
 - A. Epitheliogenesis Imperfecta
 - S. Evans p. 514

880/4

- 2. C2 Q. What does the term epistaxis describe?
 - A. Nosebleed
 - S. DET p. 98

800/4

- 3. C3 Q. What is the most common group of toxins that result in feed related poisoning?
 - A. Mycotoxins
 - S. Lewis p. 346

700/4

- 4. C4 Q. During strenuous exercise, lactic acid is a waste product that results in muscle fatigue. What **specific** type of glucose metabolism or glycolysis results in the production of lactic acid?
 - A. Anaerobic
 - S. HIH 850-2

- 5. C1 Q. In regards to the anatomy, identify **one** of the two reasons why the small intestine is more susceptible to displacement, telescoping or twisting.
 - A. The length (approximately 60 feet) and the attachment to the abdominal wall (loose mesenteric attachment)
 - S. HIH 435a-1

430/5

- 6. C2 Q. Are male or female horses primarily affected by genetic diseases that have an X-linked mode of inheritance?
 - A. Male horses
 - S. HIH 1060-3

550/4

- 7. C3 Q. A dramatic increase in the amount of concentrates in the diet should occur gradually over what period of time?
 - A. 10 to 14 days (accept anything within this range)
 - S. HIH 710-6

700/4

- 8. C4 Q. What type of reins are fastened to the girth and then passed through the rings of the snaffle bit and to the rider's hands?
 - A. Draw reins
 - S. DET p. 231

- 9. C1 Q. Use of an artificial lighting program to induce early estrous cycling and ovulation should include 16 hours of light each day and begin how long before the desired breeding season?
 - A. 2 to 3 months (accept anything within this range)
 - S. Lewis p. 237

500/4

- 10. C2 Q. What is the benefit of adding sodium zeolite to the diet of foals and yearlings that will be trained and raced at a young age?
 - A. Decreased risk of exertional induced injury (due to increased bone density)
 - S. Lewis p. 100

700/5

- 11. C3 Q. Identify **one** of the physiological functions of the turbinate bones in the nasal cavity.
 - A. Warm inspired air and moisten the air with water vapor
 - S. Evans p. 105

450/4

- 12. C4 Q. What is the base coat color of a horse that is a red silver?
 - A. Bay
 - S. HIH 1040-2

300/4

End One-On-One

Begin Open Questions

- 13. Q. The foal receives initial immune protection from the mare. How long does it take for a foal's own immune system to become functional and provide adequate protection from infectious diseases?
 - A. 2 to 4 months
 - S. YLM 112-2L

500/4

- 14. Q. Identify **two** reasons why a horse may react to sounds that a human is unable to hear.
 - A. Horses can hear sounds in hearing frequencies humans are unable to detect and horses have the ability to move their ears
 - S. ES pp. 63-64

825/4

Toss Up - Bonus Attached

- 15. Q. (Two Part) What is the primary vector for the West Nile Virus and what is considered to be the reservoir host for the virus?
 - A. Mosquito (vector) and birds (reservoir host)
 - S. HIH 665-1; ES p. 180

16. Q. (Bonus) The suffix "itis" indicates inflammation of an organ or anatomic structure. Inflammation of what organ or structure is described by the following **five** terms?

Nephritis

Hepatitis

Gastritis

Desmitis

Phlebitis

A. Nephritis-inflammation of the kidney Hepatitis-inflammation of the liver Gastritis-inflammation of the stomach Desmitis-inflammation of a ligament Phlebitis-inflammation of a vein

S. DET p. 79, 118, 138, 189, 211

400/5

Resume Open Questions

- 17. Q. What is the common name for the Anaplocephala species of flatworms that affect horses?
 - A. Tapeworms
 - S. Lewis p. 158

835/4

- 18. Q. You do the math... Your horse has Potomac Horse Fever and is being treated with the antibiotic Tetracycline. You horse weighs approximately 500 Kg (kilograms). The recommended dosage is 10 mg (milligrams) per Kg (kilogram) of body weight. How many total milligrams of Tetracycline will your horse receive?
 - A. 5000milligrams of Tetracycline
 - S. HIH 650-2

805/5

19. Q. What type of excess fluid causes the leg edema commonly referred to as "stocked up"?

- A. Lymph
- S. Evans p. 113

440/5

Toss Up - Bonus Attached

- 20. Q. (Two Part) Color in the horse is controlled by melanin. Identify **one specific** pigment color that is controlled by eumelanin and **one specific** pigment color that is controlled by pheomelanin?
 - A. Eumelanin black or brown (accept either as correct answer)
 Pheomelanin red or yellow (accept either as correct answer)
 - S. ES p. 93; Evans p. 478

300/5

Bonus Question

21. Q. (Bonus) Timeline...The evolution of the horse began approximately 75 million years ago with the "Prehorse". Put the following five major forms of the horse in the correct order beginning with the most ancient form and ending with the present...

Merychippus

Pliohippus

Equus

Mesohippus

Eohippus

- A. Eohippus...Mesohippus...Merychippus...Pliohippus...Equus
- S. ES p. 9

100/5

Resume Open Questions

- 22. Q. What is the common name for the dominance hierarchy exhibited by a group of horses?
 - A. Pecking order

S. DET p. 207

910/3

- 23. Q. What term describes a stone-like mass that forms around a foreign object in the intestines of a horse?
 - A. Enterolith (also accept fecalith)
 - S. DET p. 93, 105

830/5

- 24. Q. In regards to genetics, what term refers to the ability of a sire to **consistently** transmit physical characteristic to their offspring?
 - A. Prepotency
 - S. DET p. 220

550/4

- 25. Q. What conformation defect is described by the term "wasp-waisted"?
 - A. Weak coupling or shallow in the flank
 - S. Evans p. 152

600/3

Toss Up - Bonus Attached

- 26. Q. (Bonus) What are the correct terms for the **three** colors that result from the effect of the silver dapple gene on a black, bay and chestnut horse?
 - A. Blue silver or silver dapple (black) Red silver (chestnut)

Chestnut (chestnut) (silver only affects black areas of the horse)

S. HIH 1040-2

300/4

Bonus Question

- 27. Q. (Bonus) In regards to damage to the skin, identify **and** describe the **five** main types of **open** wounds.
 - A. Abrasion superficial wound such as a scrape or scratch Incision wound that penetrates the full thickness of the skin and is caused by a very sharp object resulting in straight wound edges
 - Laceration (tear) wound that penetrates the full thickness of the skin but is caused by a less sharp object and results in tearing of the skin and irregular wound edges
 - Puncture wound caused by a more or less pointed object resulting in a small skin opening with soft tissue penetration
 - Avulsion wound characterized by tearing and resulting in a loose flap of skin
 - S. Evans pp. 608-709; HIH 440-1, 440-2

800/4

Resume Open Questions

- 28. Q. When interpreting a Y-TexCorporation freeze brand what does the alpha character or letter identify?
 - A. Breed of the horse
 - S. Evans p. 810

- 29. Q. (Two Part) If a mare is a carrier for an X-linked genetic disease, what percent of her male foals will be affected with the disease and what percent of her female foals will be carriers?
 - A. 50% males will be affected and 50% of females will be carriers
 - S. HIH 1060-3

550/5

- 30. Q. What is the name of the Quarter Horse that was assigned the first permanent registration number in the AQHA?
 - A. Wimpy P-1 (also accept Wimpy)
 - S. Evans p. 27

200/3

- 31. Q. In general, what phase of a foot flight pattern is being altered with shoe modifications such as heel calks, square toes or toe extensions?
 - A. Break-over (also accept landing)
 - S. Evans p. 748

900/4

Last Question of the Round

- 32. Q. The dark liver or black chestnut color is **primarily** found in what breed of horses?
 - A. Morgan
 - S. Evans p. 36

Round 11 One-On-One

- 1. C1 Q. What is the only vein that carries oxygenated blood?
 - A. Pulmonary vein
 - S. Kainer plate 57

440/4

- 2. C2 Q. What is the scientific name for the organism that is the cause of the disease EPM (Equine Protozoal Myeloencephalitis)?
 - A. Sarcocystis neurona
 - S. HIH 670-1

820/5

- 3. C3 Q. What type of equine is more efficient in digesting fiber and therefore can be fed a diet that is higher in fiber?
 - A. Donkeys
 - S. ES p. 146

700/4

- 4. C4 Q. What is the common name for the practice of applying a hot iron or needle to a blemish or unsoundness as a treatment?
 - A. Firing (also accept pin firing)
 - S. DET p. 108, 212

- 5. C1 Q. How old would a horse be that has the 1st and 2nd premolars in place?
 - A. 2 1/2 years old
 - S. Evans p. 92; Kainer plate 49

835/5

- 6. C2 Q. How does the function of the placenta differ in passive immunity when comparing equines and humans?
 - A. In the horse antibodies are **not** passed across the placental barrier (as in humans) (The foal must obtain antibodies by ingesting colostrum)
 - S. ES p. 169

510/4

- 7. C3 Q. Linden Tree, Leopard and Max are the foundation sires for this breed of horse which is often mistaken for an Appaloosa. Identify this breed.
 - A. Rangerbred Horse
 - S. Evans p. 58

200/4

- 8. C4 Q. What is the common name for ileocolonic aganglionosis?
 - A. White Foal Syndrome (also accept Lethal White Foal Syndrome and Lethal White Syndrome)
 - S. HIH 1060-6

- 9. C1 Q. What physiological event changes the follicle into the corpus hemorrhagicum?
 - A. Ovulation
 - S. Kainer plate 71; HIH 910-6

510/4

- 10. C2 Q. A rubefacient is a substance that reddens the skin and produces a mild irritation. What is the purpose of using such a substance?
 - A. Improves circulation to the area (improves healing)
 - S. DET p. 237

805/5

- 11. C3 Q. What is the proper term for the steel or wooden arms that are fitted to the collar of a harness?
 - A. Hames
 - S. DET p. 129

1000/4

- 12. C4 Q. What breed is referred to as "Skogsruss" in their homeland?
 - A. Gotland
 - S. Evans p. 75

200/4

End One-On-One

Begin Open Questions

- 13. Q. Identify **one** fibrous or cartilaginous joint that would become ossified as the horse matures.
 - A. Sutures (skull); syndesmosis (between shafts of some long bones); symphysis (pelvis); growth plate (physis, epiphysis or epiphyseal plate)
 - S. Kainer plate 15

410/4

- 14. Q. The Ellensburg tree saddle is most commonly used for what type of activity?
 - A. Bronc-busting
 - S. DET p. 26, 90

1000/5

Toss Up - Bonus Attached

- 15. Q. Other than energy which is provided by carbohydrates and fats, identify two other specific nutrients that would need to be increased in a lactating mare's diet.
 - A. Calcium, Phosphorus and protein
 - S. Lewis p. 230

Bonus Question

- 16. Q. (Bonus) Administration of intravenous fluids is essential for the correction of electrolyte and acid-base abnormalities when treating a horse with salmonellosis. Identify **three** of the most common electrolyte or acid-base abnormalities that occur.
 - A. Hyponatremia (low sodium)
 Hypochloremia (low chloride)
 Hypokalemia (low potassium)
 Hypocalcemia (low calcium)
 Acidosis
 - S. HIH 660-3

805/5

Resume Open Questions

- 17. Q. You do the math... What is the minute respiratory volume for a horse with a tidal volume of 6 liters, a residual volume of 12 liters and a respiratory rate of 15 breaths per minute?
 - A. 90 liters per minute (tidal volume x respiratory rate) (Residual volume is not a value needed for this calculation)
 - S. Evans p. 109

450/5

- 18. Q. Identify **one** substance that would provide the horse with additional calcium and phosphorus when added to feed mixtures.
 - A. Steamed bone meal or Dicalcium Phosphate
 - S. YLM 302-2

750/4

19. Q. The Taffy color common to the Australian pony is the same as what color seen in Shetland ponies.

- A. Silver Dapple
- S. Evans p. 489

300/4

Toss Up - Bonus Attached

- 20. Q. Volvulus and intussusception are veterinary terms for two conditions that may occur in the small intestine and result in colic. What anatomical abnormality does each of these terms describe?
 - A. Volvulus twisting of the small intestine Intussusception – telescoping of the small intestine (segment of the intestine in-folds into an adjacent segment)
 - S. HIH 4351-1

830/5

Bonus Question

21. Q. (Bonus) Identify six conformation defects of the front legs.

A. Splay-footed Bowlegged
Pigeon-toed Knock- kneed
Base-narrow Camped-under

Base-wide Camped-out

Bench-kneed Buck-kneed (over at the knees)

Calf-kneed (back at the knees)

S. HIH 230-1 to 230-6 600/5

Resume Open Questions

22. Q. Separation between the superficial and deep layers of the skin results in "stretchy" skin that is easily damaged or torn in this

disease. Identify this disease that primarily affects Quarter Horses.

- A. HC, HERDA or Equine Hyperelastosis Cutis
- S. HIH 675-1

550/4

- 23. Q. What is a "FLT" insurance policy?
 - A. A policy that covers injury or death that results from fire, lightening or transportation?
 - S. HIH 1340-1

920/4

- 24. Q. Trismus is a symptom exhibited in a horse with Tetanus. The definition of trismus is the **same** as the common term for this disease. What is trismus?
 - A. Lockjaw (paralysis of the jaw)
 - S. HIH 645-1

820/4

- 25. Q. When introducing new horses into a herd" bio-security" measures would include isolating the new horses for a **minimum** of how many days?
 - A. Minimum of 14 days
 - S. ES p. 195

920/4

Toss Up - Bonus Attached

- 26. Q. Identify three ways to hot process grains.
 - A. Steam flaking, crimping, popping, micronizing, extruding or pelleting

S. Lewis p. 76

790/4

Bonus Question

27. Q. (Bonus) Timeline... Correctly follow the blood flow through the heart and lungs beginning with blood entering the heart via the cranial vena cava. Organize the following **seven** anatomical terms in the correct order to complete this task.

Cranial vena cava

Left ventricle

Pulmonary vein

Right atrium

Pulmonary artery

Lungs

Aorta

A. Cranial vena cava

Right atrium

Pulmonary artery

Lungs

Pulmonary vein

Left ventricle

Aorta

S. Kainer plate 57

440/5

Resume Open Questions

- 28. Q. The combination of copper, nickel and stainless steel is known as what type of substance in regards to materials used to make bits?
 - A. German Silver

S. HIH 1100-10

1000/4

- 29. Q. Which accessory gland in the stallion provides the thin watery fluid that cleanses the urethra during ejaculation?
 - A. Prostate
 - S. Evans p. 360

480/5

- 30. Q. What term is used to describe the flowing movement of the forelegs of the Peruvian Paso in which the forelegs roll to the outside as the horse strides forward?
 - A. Termino
 - S. Evans p. 43

640/4

- 31. Q. What is the common name for the parasite Dictyocaulus arnfieldi?
 - A. Lungworm
 - S. Lewis p. 159

835/5

Last Question of the Round

- 32. Q. What is the common name for the internal parasite Trichostrongylus which is usually only seen in horses grazed with ruminants?
 - A. Hairworms
 - S. Lewis p. 158, p. 407

Extra Bonus Questions

1. Q. (Bonus) Identify the five coriums that nourish the hoof.

A. Perioplic corium

Frog corium Sole corium

Coronary corium Laminar corium

S. Evans p. 696

415/5

2. Q. (Bonus) Give the common and scientific name for each of the three types of bot flies.

A. Common bot fly

Gastrophilus intestinalis

Throat bot fly

Gastrophilus nasalis

Nose bot fly

Gastrophilus hemorrhoidalis

S. YLM ADV 300-4L

835/4

3. Q. (Bonus) Identify **four** "general" ways in which dried hay can be processed or packaged for feeding or storage.

A. Stacked

Cubed (wafers)

Chopped

Pellets

Baled (round, square or rectangular would be considered one answer)

S. Lewis p. 65

780/4

4. Q. (Bonus) Identify **four** vaccinations that a foal should receive by the age of 6 months.

A. Tetanus (toxoid)

Rhinopneumonitis

Influenza

Rabies

Encephalomyelitis

(Also accept Botulism on farms where disease has been documented)

S. HIH 950-10

Extra One on One Questions 100

- 1. Q. In regards to the history of the horse, what event took place during the Pleistocene epoch in North America?
 - A. The horse became extinct in North America
 - S. Evans p. 4

100/3

- 2. Q. In the history of Spain at the time of Queen Isabella, what was a Golden Isabella?
 - A. Palomino horse
 - S. Evans p. 50

100/4

200

- 3. Q. The Trottingbred is a synthetic pony breed developed for sulky racing. Similar to Standardbreds, some are trotters and others are pacers. What is the difference in the distance that they are raced?
 - A. They race ½ mile (Standardbreds race 1 mile)
 - S. Evans p. 67

200/5

- 4. Q. The Americana is a synthetic pony breed that resulted from the crossing of what **two** breeds?
 - A. Shetland and Hackney
 - S. Evans p. 66

200

- 5. Q. What term refers to a wild Australian horse?
 - A. Brumby
 - S. DET p. 41

200/3

300

- 6. Q. What term describes a splotch of dark color on a base coat color?
 - A. "Blood mark"
 - S. ES p. 39

310/3

- 7. Q. The Cheyenne Indians thought Spanish mustangs with what color pattern possessed supernatural powers of protection?
 - A. "Medicine Hat" pattern
 - S. Evans p. 56

310/3

400

- 8. Q. Where would you find the Purkinje fibers?
 - A. In the heart muscle (also accept heart or cardiac muscle)
 - S. Kainer plate 58

400

- 9. Q. What is the medical term for the tiny, finger-like extensions of the lining of the small intestine that increase absorption of nutrients by increasing the surface area?
 - A. Villi
 - S. DET p. 283

430/5

- 10. Q. What is micturition?
 - A. Urination
 - S. Evans p. 119

470/4

- 11. Q. Fossa and tuberosity are terms used to describe bones. In general, what do these **two** terms describe?
 - A. Fossa hollow or depressed area Tuberosity – large prominence or projection
 - S. DET p. 113, 275

410/4

- 12. Q. What muscle causes the hair to stand on end and helps to keep the horse warm in cold weather?
 - A. Erectores pilorum
 - S. DET p. 99

- 13. Q. When a foal is in the transverse ventral presentation for delivery, what part of the foal's body is lodged against the pelvis of the mare and preventing the delivery of the foal?
 - A. The foal's back
 - S. Evans p. 424

500/4

- 14. Q. What is the function of the arteries and veins known as the pampiniform plexus in the stallion?
 - A. Heat exchange to the testes
 - S. YLM 327-1

520/5

- 15. Q. During a difficult delivery, repulsion would describe what action by the veterinarian or foaling attendant?
 - A. Pushing the fetus back into the uterus (done before correcting any incorrect birthing positions)
 - S. DET p. 232

500/5

600

- 16. Q. A horse with a base-narrow, toe-out conformation in the forelegs would exhibit the gait defect known as plaiting. What is the common term for plaiting?
 - A. Rope walking
 - S. Kainer plate 39

640/4

600

- 17. Q. What slang term describes legs in which the tendons lack definition or do not stand out clearly?
 - A. Gummy-legged

S. DET p. 126

620/5

700

- 18. Q. It is important for a foal to receive colostrum within 36 hours after parturition. What are the **two** things that colostrum provides the foal?
 - A. Colostrum is a laxative and provides the foal with antibodies
 - S. Evans p. 427

480/4

- 19. Q. The molds Fusarium moniliforme and Fusarium proliferatum cause what feed-related poisoning?
 - A. Moldy corn disease or Leukoencephalomalacia
 - S. Lewis p. 358

790/5

- 20. Q. A soluble-fiber bulk agent such as Metamucil would be administered to a horse with diarrhea that is a result of what type of ingestion?
 - A. Sand ingestion
 - S. Lewis p. 293

- 21. Q. What is the common name for osteodystrophia fibrosa?
 - A. Big head Disease (also accept Miller's Disease or Bran Disease)
 - S. ES p. 132; Evans p. 227

7504

- 22. Q. What type of Rhinopneumonitis may invade the brain and spinal cord causing incoordination, paralysis and recumbency?
 - A. EHV-1 (Equine Herpes Virus Type 1)
 - S. HIH 610-1

850/4

- 23. Q. What is the common name for the medication Magnesium Sulfate?
 - A. Epsom Salts (used to treat a hoof abscess or as a laxative)
 - S. DET p. 98

805/3

- 24. Q. What are the scientific names for the three types of large strongyles?
 - A. Strongylus vulgaris, Strongylus edentatus, Strongylus equinis
 - S. Lewis p. 155

835/4

- 25. Q. What type of medication is an alcohol based substance applied to the horse's legs after exercise to prevent swelling?
 - A. Brace (also accept liniment)
 - S. DET p. 36, 169

805/3

900

- 26. Q. Pasture management guidelines recommend that horses be rotated to another pasture when the grass is a **minimum** of what height?
 - A. Minimum of 3-4 inches (accept anything within this range)
 - S. HIH 3604

920/3

- 27. Q. When talking about the management of horse facilities, what do the initials BMP stand for?
 - A. Best Management Practices
 - S. HIH 360-1

920/4

- 28. Q. In a ranch operation, what is the purpose of a boundary rider?
 - A. To ride the fences of the property and repair any problems
 - S. DET p. 36

920/3

1000

- 29. Q. (Two Part) Where would you find an elliptic spring on a carriage and what is its purpose?
 - A. Spring under the seat; to absorb shock
 - S. DET p. 90

1000/5

1000

30. Q. What is the slang term for a buck strap used by a novice

when riding a bucking horse?

- A. "Fraidy strap"
- S. DET p. 42

1060/4

- 31. Q. What is a flat race?
 - A. A race without jumps
 - S. DET p. 109

1040/2

- 32. Q. Kur is the term for what type of musical freestyle performance?
 - A. Dressage
 - S. DET p. 162

Extra Toss Up Questions

- 1. Q. Identify **two** of the three anatomical structures found in the umbilical cord.
 - A. Artery (two), vein and urachus
 - S. Kainer plate 72

500/4

- 2. Q. A horse with chronic renal failure would require a diet that has less of certain nutrients. Name **two** of these nutrients.
 - A. Protein, calcium, phosphorus
 - S. Lewis p. 296

700/4

- 3. Q. Identify **two** body systems where you would find the wave-like projections on cells known as cilia.
 - A. Respiratory and reproductive (mare) systems
 - S. Kainer plate 67, 70

450/480/5

- 4. Q. When your horse is carrying a pack load down a steep grade, what **two** items of tack will need to be adjusted or pulled tighter?
 - A. Breeching and cinch
 - S. YLM 118-1L

One-On-One

- 1. C1 Q. What does the term hippophile describe?
 - A Horse lover
 - S. DET p. 140

220/3

- 2. C2 Q. What is the four-beat gait of the American Saddlebred horse that is similar to but slower than the rack?
 - A. Slow gait (also accept stepping pace)
 - S. DET p. 249; Evans p. 178; ES p. 81

640/2

- 3. C3 Q. What term describes when the rail or top element of a jump is dislodged by a horse in an over-fences competition?
 - A. Knockdown (also accept "rail down" or fault)
 - S. DET p. 16

1075/2

- 4. C4 Q. Two horses simultaneously scratching each other on the neck and over the withers and back would be an example of which behavior category?
 - A. Epimeletic behavior
 - S. Evans pp. 675-676; DET p. 97

5. C1	Q. Which vitamin is known as the "sunshine vitamin"?		
	A. Vitamin D		
	S. Lewis p. 48 740/2		
6. C2	Q. What term refers to a horse that has too much slope to its pastern?		
	A. Coon-footed		
	S. HIH 220-6 600/3		
7. C3	Q. All of the lower teeth are located in which bone?		
	A. Mandible		
	S. Kainer plate 41 410/2		
8. C4	Q. Identify one additional piece of tack that would be added to the McClellan saddle to make it more suitable for packing.		
	A. Breast collar or breeching (only need to give one answer)		
	S. YLM BEG 118-1L 1020/3		

Q. What is the country of origin for the Connemara Pony? 9. C1 A. Ireland S. Evans p. 65 200/2 Q. What is the base coat color of a blue roan? 10. C2 A. Black (also accept brown or liver chestnut) S. ES p. 47; Evans p. 81 200/2 Q. What term describes the slope of the land when completing an 11. C3 "environmental analysis" of the site for a new horse facility? A. Topography S. HIH 310-1 920/3 12. C4 Q. What is the average speed for the trot or jog? A. 6 to 8 miles per hour (accept anything within this range) S. ES p. 72 640/2 End One-On-One **Begin Open Questions** 13. Q. Which parasite causes habronemiasis or summer sores? A. Stomach worm S. Lewis p. 405 835/3

- 14. Q. What is the **main** symptom of a horse that has grazed red clover that is affected with the mold commonly known as "black patch"?
 - A. Excessive salivation or slobbering
 - S. Lewis p. 109; Evans p. 256

780/2

Toss Up – Bonus Attached

- 15. Q. Identify **two** types of hitches used to secure a load on a pack saddle.
 - A. Single, double, triple or half diamond; Squaw or Arizona
 - S. HIH 1125-1

1020/3

Bonus Question

- 16. Q. (Bonus) What are the **four** criteria used to evaluate stallion semen?
 - A. Volume, concentration, motility and morphology
 - S. Evans p. 365

520/3

Resume Open Questions

- 17. Q. What horse is the foundation sire for the Morgan breed?
 - A. Justin Morgan (also accept Figure)
 - S. Evans p. 36

200/2

- 18. Q. In general, foals weaned at 4 months should be fed a diet containing what percent protein?
 - A. 16 percent protein
 - S. Evans p. 220

760/3

19. Q. Cirrhosis is a chronic disease that affects which organ?

- A. Liver
- S. Lewis p. 385

830/3

Toss Up - Bonus Attached

- 20. Q. In general, what is the **main** difference when performing the dressage movements known as the passage and the piaffe?
 - A. The passage is a cadenced trot with a marked period of suspension. The piaffe is a collected trot "in place". (The passage is with forward motion and the piaffe is without forward movement)
 - S. DET p. 205, p. 211

1090/3

Bonus Question

- 21. Q. (Bonus) Identify the **three** classifications of muscles.
 - A. Smooth, skeletal and cardiac
 - S. Evans p. 99

410/3

Resume Open Questions

- 22. Q. What term refers to the type of striding leg interference where the hind foot on one side strikes the diagonal forefoot?
 - A. Cross-firing (occurs in pacers)
 - S. Evans p. 179

640/2

- 23. Q. What is the purpose of an antipyretic medication?
 - A. Fever-reducing medication
 - S. DET p. 13

805/3

24. Q. Which current breed of horse was formerly known as The American Trotting Horse?

- A. Standardbred
- S. Evans p. 28

200/2

- 25. Q. You do the math... If a horse should be fed at 2% of its body weight in total feed each day, how much total feed should a 1000 pound horse receive in a day?
 - A. 20 pounds of total feed
 - S. ES p. 106

700/3

Toss Up - Bonus Attached

- 26. Q. Identify the fat-soluble vitamins.
 - A. Vitamins D, E, A and K (must give all answers to be correct)
 - S. Evans p. 200

740/2

Bonus Question

- 27. Q. (Bonus) What are the two general types of mortality insurance?
 - A. Full Mortality (All Risks Mortality) and Specified (Named) Peril
 - S. HIH 1340-1

940/3

Resume Open Questions

- 28. Q. What term refers to the practice of altering the teeth of an older horse in an attempt to make it sell as a younger horse?
 - A. Bishoping
 - S. DET p. 28

- 29. Q. Which equine disease is caused by an equid herpes virus?
 - A. Rhinopneumonitis
 - S. HIH 610-1; Evans p. 598

850/2

- 30. Q. Buck-kneed and calf-kneed are the two primary conformation defects that occur in the knees. Which of these defects is more common and considered to be less serious?
 - A. Buck-kneed
 - S. HIH 230-5

600/3

- 31. Q. What is the name for the small snaffle bit in a Weymouth bridle?
 - A. Bridoon (also accept bradoon)
 - S. HIH 1100-10; DET p. 39

1070/2

Last Question of the Round

- 32. Q. What international organization governs the rules and regulations for equine activities such as international driving, show jumping, three-day events and dressage?
 - A. FEI (Federation Equestre Internationale) (also accept International Equestrian Federation)
 - S. DET p. 105

Round 2 One-On-One

1. C1	Q. What is the anatomical term for the inner layer of the uterus?		
	A. Endometrium		
	S. HIH 910-3	480/3	
2. C2	Q. Who is the foundation sire for the American Saddlebred horse?		
	A. Denmark		
	S. Evans p. 38	200/3	
3. C3	Q. Where is the location	of the swing team in a 6-horse hitch?	
	A. The middle team (middle pair)		
	S. DET p. 261	1050/2	
4. C4	-	ectly, which hind foot should remain more completing a spin to the right in a reining	
	A. Right hind foot		
	S. DET p. 213	1010/3	
5. C1	Q. Horses and ponies have 32 pairs or 64 chromosomes. How many chromosomes does the Przewalski's horse have?		
	A. 33 pairs or 66 chromo	osomes	
	S. Evans p. 449	550/3	
6. C2	Q. A "tie-down" is the W	Vestern term for what type of martingale?	
	A. Standing martingale		
	S. HIH 1100-10	1070/2	

7. C3	Q. Sweet clover poisoning results in altered blood clotting and a deficiency of which vitamin?		
	A. Vitamin K		
	S. Lewis p. 51 740/2		
8. C4	Q. What term describes a horse that is gray with a basic coat color of red?		
	A. Rose gray		
	S. ES p. 45 300/3		
9. C1	Q. What is the common term for the 1 st premolar teeth?		
	A. Wolf teeth		
	S. Lewis p. 177 835/2		
10. C2	Q. In regards to racing, what term describes the area where the horses are saddled and viewed before the race?		
	A. Paddock		
	S. Lewis p. 398; DET p. 201 1040/2		
11. C3	Q. What breed of pony is the descendant of the survivors of a shipwreck off the coast of Virginia?		
	A. Chincoteague		
	S. DET p. 55 200/2		

- 12. C4 Q. What anatomical structure is located in the vertebral foramen?
 - A. Spinal cord
 - S. Kainer plate 7

420/3

End One-On-One

Begin Open Questions

- 13. Q. What is the **minimum** width of a gate that will be used to move equipment in and out of a pasture?
 - A. At least 12 feet wide
 - S. Evans p. 771

920/3

- 14. Q. Illness, fever and/or trauma to the testes would result in a lower sperm production. Normal production would not be restored until approximately how many days after the problem has been resolved?
 - A. Approximately 65 days (accept anything in 60-65 range)
 - S. HIH 920-2

520/3

Toss Up - Bonus Attached

- 15. Q. Identify **two** of the three basic models of artificial vaginas.
 - A. Colorado, Missouri or Fujihara
 - S. Evans p. 376

500/3

Bonus Question

- 16. Q. Identify **three** types of overo or "non-tobiano" paint or pinto horse colors.
- A. Frame overo, Calico, Sabino, Splashed white, (Do not accept tovero as it is a combination of tobiano and overo)
 - S. ES pp. 49-50; HIH 1040-3

Resume Open Questions

- 17. Q. You do the math... A horse that is 66 inches tall would be how many hands tall?
 - A. 16.2 hands tall
 - S. DET p. 129

600/3

- 18. Q. In regards to watercourse management, what is the purpose of increasing the vegetative cover in drainage ditches or in buffer strips between steep slopes and waterways?
 - A. Slows down runoff water, increases absorption of runoff water, filters animal waste out of runoff water, filters soil out of runoff water, helps prevent soil erosion (only need to give one answer)
 - S. HIH 360-4

920/2

- 19. Q. Man-O-War and Secretariat were both known by what "nickname"?
 - A. "Big Red"
 - S. Evans p. 22

200/2

Toss Up – Bonus Attached

- 20. Q. The facial portion of the skull consists of what three cavities?
 - A. Orbital (surrounds the eye); nasal (nose) and oral (mouth)
 - S. Evans p. 90

410/3

Bonus Question

- 21. Q. (Bonus) Identify five of the micro or trace minerals required by horses?
 - A. Cobalt, copper, iodine, iron, manganese, selenium, zinc
 - S. ES p. 131

750/3

Resume Open Questions

- 22. Q. What organization governs the rules for reining horses?
 - A. NRHA (National Reining Horse Association)
 - S. HIH 183D-1

230/2

- 23. Q. The administration of a strangles vaccine on a farm with recurrent outbreaks of the disease would be an example of treating horses with a prophylactic medication. What is the purpose of a prophylactic medication?
 - A. To prevent a disease
 - S. DET p. 221

805/3

- 24. Q. What farrier tool is used to remove nails that are broken off even with the web of the shoe or to expand the nail holes in a shoe?
 - A. Pritchel
 - S. Evans p. 727

900/2

- 25. Q. What term refers to an organism whose chromosomes carry two identical members of a given allele pair?
 - A. Homozygous
 - S. ES p. 90

550/2

Toss Up - Bonus Attached

- 26. Q. Identify the **three** basic types of bits.
 - A. Curb, snaffle and hackamore
 - S. HIH 1100-8

Bonus Question

- 27. Q. (Bonus) Identify **three** considerations and/or potential hazards associated with feeding alfalfa pasture or hay.
 - A. Blister beetle poisoning

Use with caution in older horses

Use with caution in horses with decreased kidney function

Use with caution in horses with decreased liver function

(alfalfa contains higher amounts of protein and calcium)

Use with caution in horses with equine metabolic disease

Use with caution in horses with insulin resistance

Potential for DOD (Developmental Orthopedic Diseases) due to the imbalance of Calcium and Phosphorus and increased amount of protein resulting in rapid growth

Mycotoxin toxicosis

Respiratory problems (more likely to be dusty or moldy)

Colic (if excessive consumption of lush green alfalfa)

Increased incidence of tying-up (due to increased calcium)

Increased incidence of synchronous diaphragmatic flutter (thumps)

(due to increased calcium)

Need to balance Calcium: Phosphorus ratio

S. Lewis p. 64, 192, 214, 286, 365

780/3

Resume Open Questions

- 28. Q. In general, what structures in the horse are named for their action, shape and/or attachments?
 - A. Muscles
 - S. Kainer plate 16

410/3

- 29. Q. For fire safety, a building for hay storage should be located at least how many feet from any other structure?
 - A. At least 100 feet away
 - S. Evans p. 781

- 30. Q. What structure of the horse's foot does the farrier trim with the nippers?
 - A. Hoof wall
 - S. Evans p. 742

900/2

- 31. Q. What is the common term for the bacterial disease known as Tetanus?
 - A. Lock jaw
 - S. ES p. 172

820/2

Last Question of the Round

- 32. Q. What is the common term for the Probstmayria vivipara and Oxyuris equi parasites?
 - A. Pinworms
 - S. Evans p. 640

Round 3 One-On-One

- 1. C1 Q. Horse shoe nails have a shank that is flat on one side and the other side is concave. When driving a nail, the nail should be started with which side facing the outside of the hoof?
 - A. Flat side should be outside
 - S. Evans p. 745

900/3

- 2. C2 Q. Which type of martingale combines the action of both the snaffle rein and draw reins?
 - A. German martingale
 - S. DET p. 120

1000/3

- 3. C3 Q. What is the common term for the fungal infection commonly found in the girth area and known as Dermatophytosis?
 - A. Ringworm (also accept girth itch)
 - S. ES p. 187

835/2

- 4. C4 Q. In regards to equine business, what does the Latin expression "caveat emptor" refer to?
 - A. Let the buyer beware
 - S. DET p. 52

940/3

- 5. C1 Q. The largest percentage of which mineral is found in the myoglobin or hemoglobin in the horse's body?
 - A. Iron
 - S. Lewis p. 38

750/3

6. C2 Q. Which takes more time to pass from the horse's stomach

into the small intestine...hay or water?

- A. Hay
- S. ES p. 111

430/2

- 7. C3 Q. What rodeo event are you competing in if you are "bulldogging"?
 - A. Steer wrestling
 - S. DET p. 43

1060/3

- 8. C4 Q. Osselets are calcifications that occur as a result of traumatic arthritis located in which joint?
 - A. Fetlock joint
 - S. HIH 455-5

- 9. C1 Q. Which category of nutrient is the **primary** concern in regards to maintaining body weight?
 - A. Energy (also accept carbohydrates and fats but must give both answers to be correct)
 - S. AYLM ADV 304-2L

710/3

- 10. C2 Q. How often should horses be offered water when trailering long distances?
 - A. Every 3-4 hours
 - S. AYLM ADV 301-2L

960/3

- 11. C3 Q. Which pony breed has adapted to living in a climate with harsh winds and rain by developing fleshy upper and lower eyelids known as "hooded eyes"?
 - A. Exmoor
 - S. HIH 157B-2

200/3

- 12. C4 Q. What is the ideal percentage for the moisture content of hay when it is baled?
 - A. 15-20% (accept anything within this range)
 - S. Lewis p. 69

780/3

End One-On-OneBegin Open Questions

- 13. Q. What type of gait defect usually occurs in a horse with a toe-out or splay-footed conformation?
 - A. Dishing (also accept winging in)
 - S. Evans p. 181

- 14. Q. A synthetic breed is started by crossing two or more breeds and then breeding the first generations of the crossbred animals. What synthetic pony breed was developed from crossing the Shetland, Welsh, Hackney and Standardbred breeds?
 - A. Trottingbred
 - S. Evans p. 67

200/3

Toss Up – Bonus Attached

- 15. Q. (Two Part) What directional term refers to a structure located closer to the head and what term refers to a structure closer to the tail?
 - A. Cranial (head); Caudal (tail)
 - S. Kainer plate 2

400/3

Bonus Question

16. Q. (Bonus) Identify four factors that would result in a horse that is underweight or too thin.

A. Parasites

Malabsorption

Milk production (lactation)

Inadequate amount of feed

Hard work

Poor quality feed

Poor teeth

Illness

Too much competition in group feeding Starvation

S. Evans pp. 295-296

700/4

Resume Open Questions

- 17. Q. You do the math... How many furlongs did your horse run in the Belmont Stakes which is a 1 ½ mile race?
 - A. 12 furlongs (8 furlongs per mile)
 - S. Evans p. 20; DET p. 27

- 18. Q. What color results from a double dilution of chestnut?
 - A. Cremello
 - S. Evans p. 475

550/3

- 19. Q. Are **most** poisonous plants "more" or "less" toxic as the plant matures?
 - A. Less toxic
 - S. Lewis pp. 303-304, etc.

770/3

Toss Up – Bonus Attached

- 20. Q. What are the **three** types of trail rides?
 - A. Social (pleasure), competitive and endurance
 - S. DET p. 273

1070/4

Bonus Question

- Q. (Bonus) There are 12 cranial nerves. Identify four of these nerves. 21.
 - A. Optic

Facial

Olfactory

Vestibulocochlear

Oculomotor

Glossopharyngeal

Trochlear

Vagus

Trigeminal

Accessory (spinal root)

Abducent

Hypoglossal

S. Kainer plate 78

420/3

Resume Open Questions

- 22. Q. When comparing the nutrient value of timothy and orchard grass in a hay sample, which grass provides the highest percent of crude protein?
 - A. Orchard grass
 - S. HIH 760-5

- 23. Q. Identify **one** of the two breeds that were crossed to form the Azteca breed.
 - A. Andalusian and Quarter Horse
 - S. DET p. 19

200/3

- 24. Q. What type of parasite usually only occurs in horses that are grazed in pastures with donkeys?
 - A. Lungworms
 - S. Lewis p. 159

835/3

- 25. Q. The heart bar shoe is used on a horse with laminitis to aid in pain relief and healing. To what structure does the heart bar shoe temporarily transfer the weight to?
 - A. Frog
 - S. HIH 515-4

900/3

Toss Up - Bonus Attached

- 26. Q. What is the recommended **minimum** height for perimeter **and** dividing fences?
 - A. Perimeter at least 60 inches (5 feet) Dividing at least 54 inches (4 ½ feet)
 - S. Evans p. 760

Bonus Question

27. Q. (Bonus) Give the entire zoological classification for the horse.

A. Kingdom

Animalia

Phylum

Chordata

Class

Mammalia

Order

Perissodactyla

Family

Equidae

Genus

Equus

Species

Equus caballus

S. ES p. 15; Evans p. 13

100/4

Resume Open Questions

28. Q. Which type of vision has been essential for the horse's survival by increasing its ability to see potential predators?

A. Monocular vision

S. ES p. 57

825/3

29. Q. What is the common name for the proximal interphalangeal joint?

A. Pastern joint

S. Evans p. 689

410/3

30. Q. What type of tick can cause death in the horse as a result of starvation due to "tick-bite paralysis"?

A. Rocky Mountain wood tick (also accept Rocky Mountain tick and Dermacentor andersoni)

S. AYLM ADV 300-3L; HIH 415-7

- 31. Q. What is the most common symptom of black walnut poisoning?
 - A. Laminitis (founder)
 - S. Lewis p 323

770/2

Last Question of the Round

- 32. Q. What is a tandem hitch?
 - A. A 2 horse hitch where the horses are hitched one in front of the other
 - S. DET p. 263

1050/3

maintaining body weight?

- A. Energy (also accept carbohydrates and fats but must give both answers to be correct)
- S. AYLM ADV 304-2L

Round 4 One-On-One

- 1. C1 Q. What is the **correct** term for the type of behavior exhibited by horses that is also referred to as mimicry, contagious or infectious behavior?
 - A. Allelomimetic
 - S. Evans p. 676

910/3

- 2. C2 Q. At what age does the Galvayne's Groove extend halfway down the upper corner incisor tooth?
 - A. Age 15 years
 - S. HIH 240-4

835/3

- 3. C3 Q. (Two Part) Describe how to determine the capillary refill time including what would be considered a normal value for a healthy horse.
 - A. Press your finger against the horse's gums for a few seconds then release and count the seconds until normal color returns to the gums. Normal is 1 to 3 seconds (accept any answer that indicates range of 3 seconds or less). (Must include both how to and normal value to be correct answer)
 - S. ES p. 163

800/3

- 4. C4 Q. What is the **scientific name** for the species of bots that lays its black eggs on the short hairs on the lips?
 - A. Gastrophilus hemorrhoidalis
 - S. Evans p. 634

835/4

- 5. C1 Q. During exercise blood flow to the skin increases.
 What is the physiological purpose for this occurrence?
 - A. Improves the efficiency of heat loss (helps to cool the horse)
 - S. Evans p. 114

6. C2	Q. Which type of Encep from "horse to horse"	halomyelitis can be transmitted?	
	A. Venezuelan		
	S. Evans p. 169	820/3	
7. C3	Q. What mineral is nece thyroid gland?	ssary for proper function of the	
	A. Iodine		
	S. ES p. 138	740/2	
8. C4	Q. The canter is more collected and not as fast as the gallop or run. What is the other major difference observed when comparing the canter and gallop?		
	A. The canter is a 3 beat	gait and the gallop is a 4 beat gait	
	S. ES pp. 74-78	640/2	
9. C1	Q. What is gonitis?		
	A. Inflammation of the stifle joint		
	S. DET p. 123	810/3	
10. C2	Q. What does the term '	'free- legged" pacer describe?	
	A. A pacer that races without hobbles		
	S. DET p. 114	1040/3	

- 11. C3 Q. Approximately 1-4 days before foaling secretions from the mare's teats will become thicker, more cloudy and cover the end of the nipples. What term commonly refers to this occurrence?
 - A. Waxing or waxing-over
 - S. Lewis p. 244

510/2

- 12. C4 Q. What escape vice is described as rhythmic shifting of the weight from one forefoot to the other while swinging the head?
 - A. Weaving
 - S. Lewis p. 371

930/3

End One-On-One

Begin Open Questions

- 13. Q. Exacta and Perfecta are both types of wagering in which the bettor selects the first and second place finishers in a race. What is the **difference** in how the horses must finish to collect on these two types of wagers?
 - A. Exacta-horses must finish in the "exact" order selected Perfecta-horses must finish in first or second place without regard to the actual order in which they pass the post
 - S. DET p. 100, 209

1040/3

- 14. Q. What type of bacteria causes Strangles?
 - A. Streptococcus equi
 - S. Lewis p. 173

Toss Up - Bonus Attached

- 15. Q. What are the correct anatomical terms for the **three** skeletal structures that form the thoracic cavity?
 - A. Thoracic vertebrae (also accept vertebrae); ribs and sternum
 - S. Evans p. 97

410/3

Bonus Question

- 16. Q. (Bonus) Name **five** types of Western saddles.
 - A. Pleasure, Trail, Endurance, Reining, Barrel Racing, Roping, Cutting, Show (Western Pleasure/Equitation)
 - S. HIH 1100-4

1010/3

Resume Open Questions

- 17. Q. NAERIC is a non-profit organization that promotes the partnership between the profession of horse breeders and women's health care. What do the initials NAERIC stand for?
 - A. North American Equine Ranching Information Council
 - S. HIH 1970-1

230/4

- 18. Q. How would the sympathetic nervous system affect the heart rate?
 - A. It would increase the heart rate
 - S. Kainer plate 80

800/3

- 19. Q. You are working as a farrier and reach **behind your back** to get the tool you need from your shoeing box. How will you determine whether you have the pull offs or the nippers?
 - A. Pull offs have knobs on the ends of the handles
 - S. HIH 530-1

Toss Up - Bonus Attached

- 20. Q. (Two Part) Activated charcoal and a saline laxative are usually administered to horses that are being treated for plant poisoning. Give the purpose for **each** of these medications.
 - A. Activated charcoal to prevent further absorption (also accept to bind with the toxins); Saline laxative to quickly remove the toxin from the digestive tract
 - S. Lewis pp. 342-343

770/4

Bonus Question

- 21. Q. (Bonus) When referring to a horse's vision, where are the **four** "blind spots" located?
 - A. Front of the head (directly in front of the horse until 4-6 feet away)
 Under the head and neck
 Over the head, neck and back (topline)
 Directly behind the horse
 - S. ES pp. 58-60

825/4

Resume Open Questions

- 22. Q. What term refers to the dental condition found mainly in older horses that is a result of uneven wear of the teeth and gives a "wave-like" appearance to the teeth when viewed from the side?
 - A. Wave mouth
 - S. DET p. 288

430/4

- 23. Q. Grain, or concentrate, should not account for more than what percent of a horse's diet?
 - A. Not more than 40 percent
 - S. ES p. 107

- 24. Q. What sex-linked disease results in a deficiency of clotting factor VIII (clotting factor 8)?
 - A. Hemophilia A (Hemophilia)
 - S. Evans p. 511

550/3

- 25. Q. What **two** things are **mandatory** when transporting horses across **all** state lines?
 - A. Negative Coggins Test and current health certificate (also accept Bill of Good Health or Certificate of Veterinary Inspection) (Brand inspection, etc. would not be considered a correct answer because it is not required by all states)
 - S. YLM ADV 301-2L

960/2

Toss Up - Bonus Attached

- 26. Q. Identify the **three** stallions that are traditionally considered to be the foundation sires for the Thoroughbred breed.
 - A. Godolphin Arabian, Darley Arabian and Byerly Turk
 - S. Evans p. 21

200/3

Bonus Question

27. Q. (Bonus) The prefixes "a" or "an" refer to a deficiency or absence of a structure or substance. What do the following **four** terms describe?

Aniridia

Agalactia

Anhydrosis

Anoxia

- A. Aniridia absence of the iris
 Agalactia inability of mare to produce milk
 Anhydrosis deficiency or lack of sweating
 Anoxia lack of oxygen
- S. DET p. 4, 11, 13; ES p. 100

Resume Open Questions

- 28. Q. In which type of competition do horses perform without any personal contact from a rider or handler, as in circus acts?
 - A. Liberty classes
 - S. DET p. 168

1010/3

- Q. You do the math... Your horse's resting heart rate is 32 beats per minute. The stroke volume or amount of blood pumped during each heart contraction is approximately 1 liter. What is the cardiac output for this horse?
 - A. Approximately 32 liters per minute (stroke volume x heart rate)
 - S. Evans p. 111

440/3

- 30. Q. For what period of time is the ovum viable after ovulation occurs?
 - A. 12 to 24 hours (accept anything within this range)
 - S. Evans p. 396

510/3

- 31. Q. In regards to color genetics, which color is considered to be dominant...black or bay?
 - A. Bay
 - S. Evans p. 479

550/3

Last Question of the Round

- 32. Q. What condition does your horse have if it has pediculosis?
 - A. Lice infestation
 - S. DET p. 207

Round 5 One-On-One

- 1. C1 Q. What is the **anatomical** term for the muscle that is used by the horse for shaking off flies?
 - A. The panniculus muscle
 - S. DET p. 203

410/3

- 2. C2 Q. Which light breed of horse consistently outlives other breeds, is in its prime at age 20 and often lives well past 30?
 - A. Arabian
 - S. HIH 153B-2

200/3

- 3. C3 Q. What term refers to the yellow pasty feces that indicate that the foal has passed the meconium?
 - A. "Milk feces"
 - S. HIH 9502

500/4

- 4. C4 Q. Epinephrine is a hormone that stimulates the sympathetic nervous system and affects blood flow and muscle contractions. What endocrine gland produces epinephrine?
 - A. Adrenal gland
 - S. Evans p. 127; DET p. 98

490/3

- 5. C1 Q. What is the difference in the design of a cowboy shoe and a polo shoe?
 - A. The inside rim on the web of a polo shoe is raised above the outside rim
 - S. Evans p. 737

6. C2	Q. What is the minimum height for the ceiling in a horse st			
	A. At least 8 feet high			
	S. Evans p. 778	920/3		
7. C3	Q. What horse is considered the foundation sire for the American Albino breed?			
	A. Old King			
	S. Evans p. 53	200/4		
8. C4	Q. What is the common term for the ossification of the lateral cartilages in the distal phalanx?			
	A. Sidebones			
	S. Kainer plate 12	620/2		
9. C1	Q. What historic event took place at Circus Maximus?			
	A. Roman chariot rac	es		
	S. DET p. 57	100/4		
10. C2	Q. What test is perfor	med to diagnose Equine	Infectious Anemia?	
	A. Coggins test			
	S. DET p. 60	800/3		
11. C3	Q. What secretion is produced by the buccal glands?			
	A. Saliva			
	S. Kainer plate 47	430/4		

- 12. C4 Q. Is a horse's normal temperature higher during the day or at night?
 - A. During the day
 - S. Kainer plate 53

800/3

End One-On-One Begin Open Questions

- 13. Q. What organization do the initials AVA represent?
 - A. American Vaulting Association
 - S. HIH 185D-1

230/4

- 14. Q. The System for Scoring the Estrus Behavior in Mares rates the mare's receptivity to the stallion from 0 to 4. What score would indicate that the mare is in diestrus?
 - A. Accept score of 0 or 1 as correct answer
 - S. YLM ADV 336-1L

510/3

Toss Up - Bonus Attached

- 15. Q. (Two Part) How is the shape of the horse's pupil different in comparison to other mammals and how does the shape of the pupil benefit the horse?
 - A. The pupil is more horizontal (ex. a cat's pupil is more vertical; a human's pupil is more round)

 Gives the horse more vision over a wide horizon; enables the horse to see predators more easily (accept either as correct answer)
 - S. ES p. 56

825/4

Bonus Question

- 16. Q. (Bonus) There are many variations of the basic gray coat pattern. Identify **four** different terms that describe a gray horse.
 - A. Flea-bitten

Dapple gray

Rosettes (bursts of white on gray)

Blue or steel gray (gray on black, liver chestnut or seal brown)

Rose gray (gray on chestnut)

S. Evans p. 81: ES p. 45

300/4

Resume Open Questions

- 17. Q. The drugs Navigator and Marquis are used in the treatment of what disease?
 - A. EPM (Equine Protozoal Myeloencephalitis)
 - S. HIH 670-2

805/4

- 18. Q. You do the math... A newborn foal normally weighs 9-10% of the mare's body weight. What would be the approximate weight of a foal if the mare weighs 1200 pounds?
 - A. Approximately 108 to 120 pounds (accept anything within this range)
 - S. HIH 940-5

510/3

- 19. Q. What is the country of origin for the Cleveland Bay horse?
 - A. England
 - S. DET p. 58

200/3

Toss Up – Bonus Attached

- 20. Q. In regards to genetics, true lethals are conditions that result in embryonic death, which is death before birth. Identify **two** true genetic lethals.
 - A. Lethal dominant white (lethal white, homozygous white, dominant white) Lethal dominant roan (lethal roan, homozygous roan)
 - S. HIH 1060-4

Bonus Question

21. Q. (Bonus) Correctly identify the joint where each of the following **four** bones would be located.

Patella

Calcaneous

Olecranon

Distal sesamoid

A. Stifle (patella)

Hock (calcaneous)

Elbow (olecranon)

Coffin (distal sesamoid)

S. Kainer plates 10,14,29,30

410/4

Resume Open Questions

- 22. Q. What is the pangaré affect on color?
 - A. Results in light areas of color on the muzzle, over the eyes, on the flanks and inside the legs
 - S. Evans p. 481

310/4

- 23. Q. What two categories of nutrients provide energy for the horse?
 - A. Carbohydrates and fats
 - S. YLM ADV 302-1L

710/3

- 24. Q. What term describes the formation of excessive granulation tissue that may occur on healing leg wounds?
 - A. Proud flesh
 - S. YLM BEG 109-2L

- 25. Q. What term refers to when a high percentage of mares on a breeding farm have abortions due to Rhinopneumonitis?
 - A. Abortion storm
 - S. Evans p. 598

510/3

Toss Up - Bonus Attached

- 26. Q. Which **two** vitamins are not produced in the body and must be supplied entirely by the diet?
 - A. Vitamin A and Vitamin E
 - S. Lewis p. 42

740/3

Bonus Question

27. Q. (Bonus) Horses use many means to communicate. Identify what the following **four** vocal sounds indicate.

Snort

Nicker

Repeated throaty sounds by a stallion

Squeal

A. Snort-warning

Nicker-greeting

Repeated throaty sounds by a stallion-mating

Squeal-anger

S. Lewis p. 153

910/3

Resume Open Questions

- 28. Q. What is the **anatomical** term for the area of the reproductive tract in the stallion that transports spermatozoa from the epididymis to the urethra?
 - A. Vas Deferens
 - S. Evans p. 358

- 29. Q. The oribatid mite is the intermediate host for what type of internal parasite?
 - A. Tapeworm
 - S. HIH 430-4

835/3

- 30. Q. What type of stall bedding would be a good choice for a horse with heaves or horse owners with allergies?
 - A. Shredded newspaper
 - S. HIH 330-2

920/3

- 31. Q. A horse with what genetic disease would benefit from a diet that is low in potassium?
 - A. HYPP or Hyperkalemic Periodic Paralysis (also accept PIPP or Potassium Induced Periodic Paralysis)
 - S. Lewis p. 298; HIH 1060-6

700/3

Last Question of the Round

- 32. Q. What is a unicorn hitch?
 - A. Hitch with 2 horses hitched as a pair and a third horse hitched in front of them
 - S. DET p. 279

Round 6 One-On-One

- 1. C1 Q. When referring to a chestnut horse what does the term tostada describe?
 - A. A red colored horse with darker red-colored points
 - S. ES p. 41

300/4

- 2. C2 Q. What term refers to deciduous teeth that remain attached to erupted permanent teeth?
 - A. Caps
 - S. Kainer plate 48

835/2

- 3. C3 Q. What organization do the initials AQHA stand for?
 - A. American Quarter Horse Association
 - S. HIH 168B-2

230/2

- 4. C4 Q. Larking refers to unnecessarily jumping fences when participating in what equine activity?
 - A. Foxhunting
 - S. DET p. 164

5. C1	Q. What is the term for the pieces of amorphous material found in the allantoic fluid during pregnancy?			
	A. Hippomanes			
	S. Evans p. 342 500/3			
6. C2	Q. Identify one physiological function that will increase the requirement for salt in the horse's diet?			
	A. Sweating or lactation			
	S. Evans p. 236; Lewis pp. 25-26	750/3		
7. C3	Q. What is the term for the 7 ½ or 8 mi play in a polo match?	nute period of		
	A. Chukker or chukka			
	S. DET p. 56 1070/4			
8. C4	Q. What secretion is produced by the li	iver?		
	A. Bile			
	S. Kainer plate 54 490/3			
9. C1	Q. Drainage from a three sided run-in some or grass waterway should have what			
	A. Two percent			
	S. HIH 360-3 920/3			

- 10. C2 Q. What mineral helps to prevent cell damage due to oxidation and works in conjunction with Vitamin E?
 - A. Selenium
 - S. ES p. 140

740/3

- 11. C3 Q. When comparing the Crossbuck and Decker saddles, which saddle would have a double cinch?
 - A. Crossbuck
 - S. YLM BEG118-1L

1020/3

- 12. C4 Q. Which **one** of the following breeds would **not** be considered a pony breed...Galiceño, Exmoor, Falabella or Trottingbred?
 - A. Falabella (miniature horse)
 - S. DET p. 103

200/4

End One-On-One Begin Open Questions

- 13. Q. Why do lactating mares have the best chance of survival after ingesting the poisonous plant White Snakeroot?
 - A. The toxin in White Snakeroot (Tremetol) is excreted from the body by lactation
 - S. Lewis p. 320

770/4

- 14. Q. What does the term "nicking" describe in reference to the offspring from a breeding program based on linebreeding?
 - A. Offspring that are superior to their parents as a result of a particular mare/stallion cross
 - S. HIH 1080-1; DET p. 190

Toss Up - Bonus Attached

- 15. Q. Identify **two** locations where you would find tactile hairs.
 - A. Nostrils, lips and around the eyelids (muzzle would include **both** the lips and nostrils and would be considered as **one** correct answer)
 - S. Kainer plate 4

460/3

Bonus Question

- 16. Q. (Bonus) Identify **two** advantages and **two** disadvantages of using sawdust or wood shavings for bedding.
 - A. Advantages... Less volume for disposal

Easier disposal

Seldom eaten by horses

Less labor intensive to clean

Less combustible

Less odor

Disadvantages.. More expensive

May be dusty

May cause respiratory problems (if dusty)

Be cautious of black walnut shavings

May require additional storage space

Needs to be stored indoors or in a protected

area (when wet is non-absorbent and

takes a long time to dry)

S. HIH 330-1

920/4

Resume Open Questions

- 17. Q. What is a teamster's verbal cue to signal a draft horse team to turn right?
 - A. Gee (jē)
 - S. DET p. 119

- 18. Q. Muscle fibers are classified as Type I (slow-twitch) or Type II (fast-twitch). Which type of muscle fibers function aerobically and provide endurance?
 - A. Type I (slow-twitch)
 - S. HIH 840-2

410/4

- 19. Q. When performing an embryo transfer, the embryo should be collected from the donor mare on what day post-ovulation?
 - A. Day 6 (accept anything in range of day 6 to 8)
 - S. Evans pp. 411-412

510/4

Toss Up - Bonus Attached

- 20. Q. Name **two** things that adding fat to the diet has been proven to increase.
 - A. Growth, performance (work), reproductive function and milk production
 - S. ES p. 148

720/3

Bonus Question

21. Q. (Bonus) Timeline... Place the following **four** breeds in the correct order of development. Begin with the oldest breed and continue with each of the other breeds until all are in the correct timeline.

Thoroughbred

Hackney

Welsh

Arabian

- A. Arabian...Thoroughbred...Hackney...Welsh
- S. Evans p. 61

Resume Open Questions

- 22. Q. Aluminum shoes are commonly associated with racing but are also used on the front feet of horses participating in what other type of activity?
 - A. Reining, western pleasure, jumping (only need to give one answer)
 - S. HIH 515-4

900/3

- Q. You do the math...You are judging a reining class and have just finished scoring the last horse. You have given this horse a total maneuver score of + 3 ½ (plus 3 ½) and total penalties of -5 (minus 5). What would be the final score for this horse?
 - A. Final score 68 ½
 - S. HIH 183D-1

1010/3

- 24. Q. What item of tack absorbs sweat and dries quickly while keeping the horse warm after a workout?
 - A. Cooler
 - S. HIH 1100-6

1000/2

- 25. Q. What anatomical structure in the horse does the Latin word "rostrum" refer to?
 - A. Nose
 - S. Kainer plate 2

Toss Up - Bonus Attached

- 26. Q. Identify **two** types of internal parasites that horses usually develop an immunity to as they mature.
 - A. Roundworms (ascarids or Parascaris Equorum) and threadworms (Srongyloides westeri)
 - S. ES pp. 189-190; Evans pp. 630-632

835/3

Bonus Question

- 27. Q. (Bonus) Give the common and anatomical name for each of the three bones located in the foot.
 - A. Coffin or pedal bone (distal or third phalanx)
 Short pastern bone (middle or second phalanx)
 Navicular or shuttle bone (distal sesamoid)
 - S. Evans p. 686; DET p. 60, 188; Kainer plate 12

480/4

Resume Open Questions

- 28. Q. Beta-carotene is a nutritional source for which fat-soluble vitamin?
 - A. Vitamin A
 - S. Lewis p. 46

740/2

- 29. Q. Nigropallidal encephalomalacia is commonly known as the "chewing disease" because it destroys the horse's ability to ingest and chew food. Identify **one** of the two plants that cause this condition.
 - A. Russian knapweed or Yellow star thistle
 - S. Lewis p. 318

- 30. Q. What type of behavior would be exhibited by a gelding that is described as a "rig" or proud-cut horse?
 - A. Stallion-like aggressive behavior
 - S. Lewis p. 401

910/2

- 31. Q. At what location on a horse would you expect to find the swelling associated with a shoe boil?
 - A. Point of the elbow (also accept elbow)
 - S. Evans p. 163

620/3

Last Question of the Round

- 32. Q. Lethal white foal syndrome is not the same as dominant white and is associated with what color gene?
 - A. Overo gene
 - S. ES p. 98; Evans p. 513

Round 7 One-On-One

- 1. C1 Q. What breed is associated with the silver dapple color?
 - A. Shetland (also accept Rocky Mountain Horse and Kentucky Mountain Saddle Horse)
 - S. Evans p.488

330/3

- 2. C2 Q. What is the common term for laryngeal hemiplegia?
 - A. Roaring
 - S. DET p. 165

850/3

- 3. C3 Q. What is considered to be the most economical protein supplement?
 - A. Soybean meal
 - S. YLM ADV 302-2L

760/2

- 4. C4 Q. What is the name given to the person who makes the metal parts of tack such as bits, curb chains and stirrup irons?
 - A. Lorimer
 - S. DET p. 172

Q. What enzyme is produced in the fundus of the stomach 5. C1 and helps break down proteins? A. Pepsin S. Kainer plate 51 430/3 6. C2 Q. During parturition, what is the most difficult part of the delivery of the foal? A. Passage or delivery of the foal's shoulders S. Evans p. 422 500/3 Q. Psoroptes equi is a mite that causes what type of mange? 7. C3 A. Psoroptic mange (also accept Psoroptic scab, "scab" or "wet mange") S. HIH 415-8 835/4 Q. What does the term Prophet's thumb describe? 8. C4 A. A muscular depression of unknown origin usually seen on the neck (may also be on the quarters or shoulder) S. DET p. 221 310/4

- 9. C1 Q. How are excess simple sugars stored in the body?
 - A. They are stored as fat
 - S. ES p. 146

730/3

- 10. C2 Q. What is the general term for markings such as a dorsal stripe, cobwebbing on the forehead, zebra stripes on the legs and a wither stripe or shadowing?
 - A. "Primitive markings"
 - S. ES p. 38

310/4

- 11. C3 Q. What breed of horse is primarily affected by the genetic lethal Combined Immunodeficiency Disease?
 - A. Arabians (and Arabian crosses)
 - S. HIH 1060-4

550/3

- 12. C4 Q. Where would you find latigo straps?
 - A. On a Western saddle (the leather straps that fasten the cinch)
 - S. DET p. 165

1000/3

End One-On-One

Begin Open Questions

- 13. Q. What breed association is described by the initials MFTHBA?
 - A. Missouri Fox Trotting Horse Breed Association
 - S. HIH 161B-2

230/4

- 14. Q. There are five different types of walks in a dressage test. Which of these would be completed with the horse on a "long rein"?
 - A. Free walk
 - S. Evans p. 174

640/2

Toss Up - Bonus Attached

- 15. Q. Identify **two** of the three breeds of horses that most hot-blooded horses can be traced to in regards to ancestry.
 - A. Arabian, Barb, Turkmene
 - S. Evans p. 17

16. Q. (Bonus) Timeline... You are a farrier and are demonstrating how to remove a shoe and trim the hoof. What is the correct order to use the following **five** farrier tools when accomplishing this task?

Nippers

Hoof knife

Clinch cutter

Rasp

Pull offs

- A. Clinch cutter...pull offs...hoof knife...nippers...rasp
- S. HIH 535-2, 535-3

900/4

Resume Open Questions

- 17. Q. Blood from what anatomical structure provides the fetus with oxygenated blood?
 - A. Placenta
 - S. Kainer plate 58

500/3

- 18. Q. What is the cry of the hunt once the fox has been sighted?
 - A. Tallyho
 - S. DET p. 262

- 19. Q. What is the term used for a gene that has the ability to mask the genetic makeup of the other gene in an allele pair?
 - A. Dominant

S. ES p. 90

550/3

Toss Up – Bonus Attached

20. Q. Trace mineralized salt is 93-98% salt. Identify **three** of the trace minerals that are also found in the trace mineralized salt.

A. Manganese

Iron

Cobalt

Copper

Iodine

Zinc

Selenium

S. YLM ADV 302-2L; Lewis p. 26

750/4

Bonus Question

- 21. Q. (Bonus) In regards to anatomy, the horse has two ileums depending on the spelling of the word. Correctly spell **and** give the specific location of **each** of the ileums.
 - A. Ileum...distal portion of the small intestine (accept small intestine) Ilium...one of the bones in the pelvis
 - S. DET p. 149; Kainer plate 28

410/430/4

Resume Open Questions

- 22. Q. What does the term teratogenic describe in regards to plant poisoning?
 - A. Compounds that cross the placenta and cause physical

defects in the fetus

S. Lewis p. 332

770/3

- 23. Q. Following the rule of thumb recommendation for adequate ventilation in a barn, a barn with 8 stalls would require how much ridge ventilation?
 - A. At least 8 feet of ridge ventilation (1 foot per horse or stall)
 - S. HIH 320-8

920/4

- 24. Q. What is the slang term for Equine Infectious Anemia?
 - A. Swamp fever
 - S. Lewis p. 175

840/3

- 25. Q. What is the common name for the anti-inflammatory medication phenylbutazone?
 - A. Bute
 - S. DET p. 43

805/3

Toss Up – Bonus Attached

- 26. Q. Identify the **two** equine diseases that are caused by a type of Clostridium bacteria.
 - A. Tetanus (Clostridium tetani) and Botulism (Clostridium botulinum)
 - S. HIH 445-2, 445-8: Lewis p. 168, p. 362

Bonus Question

- 27. Q. (Bonus). Electrical systems in a barn are often the cause of a barn fire. Identify **four** safety precautions that are recommended in regards to the electrical system.
 - A. Electrical system must meet code standards
 Panel boxes should be in a dry, dust free area; corrosive resistant
 and weather-proofed

Outlet and switch boxes should be metal

Outlet and switch boxes should have spring-loaded dust and waterproof covers

Wire should be encased in metal conduit pipe
Light fixtures should have dust and moisture-resistant covers
Any appliances (clippers, etc.) must be UL approved and grounded
Portable heaters should not be used in the barn
Heat lamps should not be placed too close to hay or bedding
Heat tapes and water tanks must have a thermostat and
be UL approved

S. YLM BEG 113-1L 920/4

Resume Open Questions

- 28. Q. What can be done to delay foaling until the veterinarian arrives if there is an indication of abnormal presentation of the foal?
 - A. Walk the mare and keep her standing
 - S. Lewis p. 245 500/3

- 29. Q. The vertebrae would be examples of what classification of bones?
 - A. Irregular bones
 - S. Evans p. 90

410/3

- 30. Q. You do the math... Carrollton Hounds hunted 15 and ½ couple hounds last week. How many hounds were in the pack?
 - A. 31 hounds
 - S. DET p. 70

1080/3

- 31. Q. What type of **shoe** is used to elevate the heels of a horse that is confined to stall rest?
 - A. Patten shoe (also accept wedge shoe)
 - S. HIH 515-5

410/3

Last Question of the Round

- 32. Q. What is the term for the breeding of animals or crossing of lines that are unrelated?
 - A. Outcrossing
 - S. HIH 1080-1

Round 8 One-On-One

- 1. C1 Q. The medication atropine is used to treat bradycardia. What is bradycardia?
 - A. Abnormally slow heart rate
 - S. DET p. 37, p. 17

805/4

- 2. C2 Q. What is the primary cause of runoff on horse farms?
 - A. Overgrazing
 - S. HIH 360-4

920/3

- 3. C3 Q. What is the common term for diarrhea?
 - A. Scours
 - S. DET p. 240

830/4

- 4. C4 Q. What vitamin deficiency is associated with a deficiency of the mineral cobalt?
 - A. Vitamin B12
 - S. Lewis p. 39

- 5. C1 Q. You are competing in a calf-roping event. What is the name of the six foot long rope you are carrying and will use to tie the legs of the calf?
 - A. Piggin' string
 - S. DET p. 212

1060/3

- 6. C2 Q. What is the proper term for the circular movement of an eye or leg?
 - A. Circumduction
 - S. DET p. 51

410/4

- 7. C3 Q. What breed is noted for its excellent conformation as a miniature horse and was developed in Argentina?
 - A. Falabella
 - S. Evans p. 67

200/4

- 8. C4 Q. What general type of equine has the lowest incidence of twin pregnancies?
 - A. Pony breeds
 - S. Lewis p. 240

9. C1	Q. What mammal has been implicated as the reservoir or definitive host for the protozoa, Sarcocystis neurona?
	A. Opossum
	S. ES p. 174; HIH 670-1 830/4
10. C2	Q. In feeding management, what term describes the uptake of ground moisture into a bale of hay?
	A. The wicking effect
	S. YLM 710-5 700/4
11. C3	Q. What is the term for the inflammation of the bursa that is located between the thoracic vertebrae and the nuchal ligament of the neck?
	A. Fistulous withers (also accept sinus of the withers)
	S. Lewis p. 389; Kainer plate 20 810/4
12. C4	Q. What activity is described as gymnastics on the moving horse?
	A. Vaulting
	S. DET p. 281 1070/3

End One-On-One

Begin Open Questions

- 13. Q. How many times a year should pastures be mowed and chain harrowed or dragged to break up manure piles and expose parasite eggs to the elements?
 - A. Two to four times per year (accept anything within this range)
 - S. HIH 365-6

920/4

- 14. Q. Leydig cells in the stallion are responsible for the production of what **two** hormones?
 - A. Testosterone and Estrogen
 - S. HIH 920-2

480/4

Toss Up - Bonus Attached

- 15. Q. Identify **two** nutrients or additives that should be limited in the diet of a horse with liver disease.
 - A. Carbohydrates, fats, protein, fat and salt
 - S. Lewis p. 296

- 16. Q. (Bonus) You do the math...Your equine transportation company will be trailering a load of horses and will be traveling 24 hours to reach your destination. You plan to stop every 3 hours to offer the horses water and will unload the horses to allow them to rest after 18 hours. Not counting the stop at your final destination, how many stops will you make to care for the horses?
 - A. 7 stops (the 18 hour unloading stop would coincide with a stop to offer the horses water)
 - S. YLM ADV 301-2L

960/4

Resume Open Questions

- 17. Q. Why is the scarlet livery worn by foxhunting staff commonly called "pinks"?
 - A. A famous British tailor named Pinque supposedly made the first coats
 - S. DET p. 145

1080/4

- 18. Q. Hemiparesis is "weakness" on one side of the body. What does the term hemiplegia describe?
 - A. "Paralysis" on one side of the body
 - S. DET p. 137

820/4

- 19. Q. In comparison to the horse, how is the length of the estrous cycle of donkeys and ponies different?
 - A. Estrous cycles are longer (usually 25 days instead of 19-22 days)
 - S. Kainer plate 71

- 20. Q. What are the **two main symptoms** of the "Bob-tail Disease" which is a result of selenium toxicity?
 - A. Circular horizontal cracks in the hoof wall; loss of the long hair from the mane and tail (roached mane and bob-tail appearance)
 - S. Lewis p. 329

770/4

Bonus Question

- Q. (Bonus) Erosion on your pastures is affected by what **four environmental** factors?
 - A. Soil type (would include clay, sandy, rocky, etc.), slope of the land (topography), amount of rain or snowfall (precipitation) and vegetative cover
 - S. HIH 360-4

920/4

Resume Open Questions

- 22. Q. Would the nerves for the forelegs or hind legs originate in the brachial plexus?
 - A. Forelegs
 - S. Kainer plate 22

- 23. Q. Approximately 99% of Standardbred horses trace their ancestry to what foundation sire?
 - A. Hambletonian 10

S. Evans p. 29; HIH 171B-1

200/3

- 24. Q. If weight loss is observed in an older horse the horse's diet should be changed to a diet similar to that fed to a long yearling. What is a long yearling?
 - A. A horse more than 1 year old but not yet 2 years old
 - S. HIH 450-2; DET p. 171

700/3

- 25. Q. Identify **one** of the two types of flies that serve as intermediate hosts for the Habronema species of stomach worms.
 - A. Houseflies (Musca domestica) or Stable flies (Stomoxys calcitrans)
 - S. Evans p. 642; HIH 415-1

835/4

Toss Up – Bonus Attached

- 26. Q. Identify **two** of the four breeds of horses that are affected by the sex-linked disease Hemophilia A.
 - A. Thoroughbred, Standardbred, Quarter Horse and Arabian
 - S. HIH 1060-6; ES p. 99

5504

Bonus Question

27. Q. (Bonus) Timeline... The eruption and wear of the permanent teeth can be used to determine the age of a horse. Organize the following **four** types of permanent teeth according to the age of eruption... Canines...1st premolar...2nd molar...2nd (intermediate) incisor

- A. 1st premolar (wolf tooth) (5-6 months)
 2nd molar (2 years)
 2nd incisor (3 ½ years)
 Canines (4-5 years)
- S. Evans pp. 92093

835/4

Resume Open Questions

- 28. Q. How does the thickness of the hoof wall determine the web or width of a horse shoe?
 - A. The web or width should be twice the thickness of the hoof wall
 - S. YLM INT 221-2L

900/4

- 29. Q. In general, what does the statement "live foal" describe?
 - A. A foal that stands and nurses
 - S. DET p. 170

500/3

- 30. Q. What type of bacteria is considered the **most common** cause of infectious enterocolitis in **adult** horses?
 - A. Salmonella
 - S. HIH 660-1

830/4

- 31. Q. What is the most common material used to make bits?
 - A. Stainless steel
 - S. HIH 1100-10

Last Question of the Round

- 32. Q. What term refers to the conformation defect seen in older mares, thin mares and mares with a flat croup, high tail head and/or a tendency to be sway backed which affects fertility?
 - A. Pneumovagina (also accept "windsucking")
 - S. YLM INT 230-1L

Round 9 One-On-One

- 1. C1 Q. It is rare that a horse is poisoned by a single mouthful of a toxic plant. Name **one** of the two plants that are considered to be the exception to this rule.
 - A. Water hemlock or yew
 - S. Lewis p. 301

770/4

- 2. C2 Q. What breed of horse is most commonly associated with Equine Night Blindness?
 - A. Appaloosa
 - S. ES p.100

550/3

- 3. C3 Q. Orphan foals have a very high dietary energy requirement and should be fed how often during the first 1-2 weeks of life?
 - A. Every 2 to 4 hours
 - S. Kainer plate 69, Lewis p. 275

500/3

- 4. C4 Q. In a cutting competition, the horse and rider must demonstrate their ability to "cut" cattle and prevent them from returning to the herd. What is the time limit in this contest?
 - A. Two minutes and thirty seconds
 - S. HIH180D-1

- 5. C1 Q. In general, foals born to previously vaccinated mares would begin receiving routine vaccinations at what age?
 - A. 3 months of age (also accept 3 or 4 months due to new AAEP guidelines)
 - S. HIH 950-10

805/3

- 6. C2 Q. What is considered the **most** important factor when evaluating the quality of a forage at the time of harvest?
 - A. Stage of maturity
 - S. HIH 760-4

780/3

- 7. C3 Q. There are many different types of horse shoe nails including city, regular and countersunk. Which of these nails are most often used for handmade shoes and foreign-made shoes?
 - A. Countersunk
 - S. YLM INT 231-4L

900/4

- 8. C4 Q. What hormone would be influencing the cervix when it is flaccid, very pink and vascular, and produces a thin watery mucous?
 - A. Estrogen
 - S. HIH 910-3

- 9. C1 Q. What is the **primary** vector for the equine disease caused by the bacteria Borrelia burgdorferi?
 - A. Ticks
 - S. HIH 655-1

840/4

- 10. C2 Q. The proximal and distal sesamoid bones serve as pulleys to change the direction of which **specific** tendon?
 - A. Deep digital flexor tendon (must specify deep not superficial) (also accept deep flexor tendon)
 - S. Kainer plate 12

400/4

- 11. C3 Q. Identify **one** of the two physiological reasons for adding lysine to a horse's diet?
 - A. For growth or milk production
 - S. DET p. 173

760/4

- 12. C4 Q. What is the common term for aerophagia?
 - A. Windsucking (also accept cribbing)
 - S. Lewis p. 373; DET p. 72

930/4

End One-On-One

Begin Open Questions

- 13. Q. In general, when is a foal considered to be a neonate?
 - A. During the first 30 days after birth
 - S. DET p. 189

500/4

- 14. Q. What is the common name for dermatitis granulose?
 - A. Summer sores
 - S. DET p. 79

860/4

Toss Up - Bonus Attached

- 15. Q. Identify **two** ways you can promote better manure distribution in a pasture and avoid areas of heavy manure deposition.
 - A. Provide several watering sites, periodically move feeding or water sites, split pastures, rotational grazing
 - S. HIH 365-2

16. Q. (Bonus) Timeline...The estrous cycle of a mare is influenced by the action of many hormones. Starting with the beginning of the follicle development and continuing through ovulation and the eventual return to diestrus, place the following **four** hormones in the correct order for a **non-pregnant** mare...

Prostaglandin

LH (Luteinizing hormone)

Progesterone

FSH (Follicle stimulating hormone)

- A. FSH...LH...Progesterone...Prostaglandin
- S. HIH 910-6

510/5

Resume Open Questions

- 17. Q. What is indicated by the behavioral term pica?
 - A. A horse that eats unnatural substances such as bones, wood, hair, etc.
 - S. DET p. 211

910/4

- 18. Q. In regards to pasture management, identify **two** circumstances when you should keep horses off the pasture?
 - A. During pesticide spraying and fertilizing, to reduce overgrazing, when there is fresh or lush pasture, during winter, when soils are wet
 - S. HIH 360-3; HIH 360-4

- 19. Q. What is considered the major cause of death in foals less than 8 months old?
 - A. Pneumonia

S. Lewis p. 258

850/3

Toss Up - Bonus Attached

- 20. Q. (Bonus) You do the math... The Tevis Cup is a **100mile** long endurance trail ride. The race must be completed within 24 hours and there are **two mandatory 60 minute rest stops.** Your Arabian gelding completed the race in **22 hours**. What was your **average** speed in miles per hour?
 - A. 5 miles per hour

S. DET p. 266

1070/4

Bonus Question

- 21. Q. (Bonus) The body position a horse assumes may be indicative of illness. Identify the disease or condition that would **most** likely be present in the following **three** horses.
 - Horse # 1... A horse with a "saw-horse" stance
 - Horse # 2... A horse standing with its head and neck outstretched and resistant to flexion
 - Horse # 3... A horse that has its front feet out ahead of the body and rocks back on its hind feet, drawing them underneath the body for support
 - A. Horse # 1 Tetanus
 - Horse # 2 Strangles (also accept Choke)
 - Horse #3 Laminitis (Founder)
 - S. ES p. 171, 172, 182: YLM ADV 334-3L; Evans p. 611 800/4

Resume Open Questions

22. Q. Are red maple leaves **more** toxic when fresh or when wilted or dried?

- A. Wilted or dried (toxic up to 30 days once dried)
- S. Lewis p. 331

770/4

- 23. Q. What is an anthelmintic?
 - A. A de-worming agent (do not accept "wormer")
 - S. YLM INT 224-3L

805/3

- 24. Q. What is the only **draft breed** recognized as a breed that originated in the United States?
 - A. The American Cream Draft Horse (also accept Cream Draft Horse or American Cream) (do **not** accept Cream Horse or American Cream Horse as these terms refer to a color breed and not specifically a draft horse)
 - S. HIH 155B-1; DET p.8

200/4

- 25. Q. What is the common term for urticaria?
 - A. Hives (also accept protein bumps)
 - S. Lewis p. 393, 407

850/4

Toss Up - Bonus Attached

- 26. Q. Identify **two** of the three bones that form the orbital cavity of the skull.
 - A. Frontal bone, zygomatic bone and lacrimal bone
 - S. Kainer plate 41; DET p. 247

Bonus Question

27. Q. (Bonus) Name **five** factors that you would consider when choosing bedding for a stall.

A. Absorptive capacity

Price

Ease of handling

Availability

Clean up and disposal

Dustiness

Texture (slippery when wet, etc.)

Storage requirements

Irritability from dust or components causing allergies

Type of horses (foaling stalls, etc.)

S. HIH 330-2

920/4

Resume Open Questions

28. Q. What is the minimum ceiling height for a breeding shed?

A. Minimum of 12 to 15 feet high (accept anything within this range)

S. Evans p. 781

920/3

29. Q. What is the common name for Recurrent Exertional Rhabdomyolysis?

- A. Tying-Up
- S. HIH 460-3

800/4

30. Q. What is another name for the activity described as "heading and heeling"?

- A. Team roping
- S. DET p. 263

1060/4

31. Q. What is the main function of the large colon?

- A. Water absorption
- S. ES p. 113

430/3

Last Question of the Round

- 32. Q. During strenuous exercise which muscle receives the largest increase in blood flow?
 - A. Diaphragm muscle
 - S. Evans p. 114

Round 10 One-On-One

- 1. C1 Q. What rare genetic disease results in foal death due to infection and the characteristic appearance of foals with missing patches of hair or skin at birth?
 - A. Epitheliogenesis Imperfecta
 - S. Evans p. 514

880/4

- 2. C2 Q. What does the term epistaxis describe?
 - A. Nosebleed
 - S. DET p. 98

800/4

- 3. C3 Q. What is the most common group of toxins that result in feed related poisoning?
 - A. Mycotoxins
 - S. Lewis p. 346

700/4

- 4. C4 Q. During strenuous exercise, lactic acid is a waste product that results in muscle fatigue. What **specific** type of glucose metabolism or glycolysis results in the production of lactic acid?
 - A. Anaerobic
 - S. HIH 850-2

- 5. C1 Q. In regards to the anatomy, identify **one** of the two reasons why the small intestine is more susceptible to displacement, telescoping or twisting.
 - A. The length (approximately 60 feet) and the attachment to the abdominal wall (loose mesenteric attachment)
 - S. HIH 435a-1

430/5

- 6. C2 Q. Are male or female horses primarily affected by genetic diseases that have an X-linked mode of inheritance?
 - A. Male horses
 - S. HIH 1060-3

550/4

- 7. C3 Q. A dramatic increase in the amount of concentrates in the diet should occur gradually over what period of time?
 - A. 10 to 14 days (accept anything within this range)
 - S. HIH 710-6

700/4

- 8. C4 Q. What type of reins are fastened to the girth and then passed through the rings of the snaffle bit and to the rider's hands?
 - A. Draw reins
 - S. DET p. 231

- 9. C1 Q. Use of an artificial lighting program to induce early estrous cycling and ovulation should include 16 hours of light each day and begin how long before the desired breeding season?
 - A. 2 to 3 months (accept anything within this range)
 - S. Lewis p. 237

500/4

- 10. C2 Q. What is the benefit of adding sodium zeolite to the diet of foals and yearlings that will be trained and raced at a young age?
 - A. Decreased risk of exertional induced injury (due to increased bone density)
 - S. Lewis p. 100

700/5

- 11. C3 Q. Identify **one** of the physiological functions of the turbinate bones in the nasal cavity.
 - A. Warm inspired air and moisten the air with water vapor
 - S. Evans p. 105

450/4

- 12. C4 Q. What is the base coat color of a horse that is a red silver?
 - A. Bay
 - S. HIH 1040-2

300/4

End One-On-One

Begin Open Questions

- 13. Q. The foal receives initial immune protection from the mare. How long does it take for a foal's own immune system to become functional and provide adequate protection from infectious diseases?
 - A. 2 to 4 months
 - S. YLM 112-2L

500/4

- 14. Q. Identify **two** reasons why a horse may react to sounds that a human is unable to hear.
 - A. Horses can hear sounds in hearing frequencies humans are unable to detect and horses have the ability to move their ears
 - S. ES pp. 63-64

825/4

Toss Up - Bonus Attached

- 15. Q. (Two Part) What is the primary vector for the West Nile Virus and what is considered to be the reservoir host for the virus?
 - A. Mosquito (vector) and birds (reservoir host)
 - S. HIH 665-1; ES p. 180

16. Q. (Bonus) The suffix "itis" indicates inflammation of an organ or anatomic structure. Inflammation of what organ or structure is described by the following **five** terms?

Nephritis

Hepatitis

Gastritis

Desmitis

Phlebitis

A. Nephritis-inflammation of the kidney Hepatitis-inflammation of the liver Gastritis-inflammation of the stomach Desmitis-inflammation of a ligament Phlebitis-inflammation of a vein

S. DET p. 79, 118, 138, 189, 211

400/5

Resume Open Questions

- 17. Q. What is the common name for the Anaplocephala species of flatworms that affect horses?
 - A. Tapeworms
 - S. Lewis p. 158

835/4

- 18. Q. You do the math... Your horse has Potomac Horse Fever and is being treated with the antibiotic Tetracycline. You horse weighs approximately 500 Kg (kilograms). The recommended dosage is 10 mg (milligrams) per Kg (kilogram) of body weight. How many total milligrams of Tetracycline will your horse receive?
 - A. 5000milligrams of Tetracycline
 - S. HIH 650-2

805/5

19. Q. What type of excess fluid causes the leg edema commonly referred to as "stocked up"?

- A. Lymph
- S. Evans p. 113

440/5

Toss Up - Bonus Attached

- 20. Q. (Two Part) Color in the horse is controlled by melanin.

 Identify **one specific** pigment color that is controlled by eumelanin and **one specific** pigment color that is controlled by pheomelanin?
 - A. Eumelanin black or brown (accept either as correct answer) Pheomelanin red or yellow (accept either as correct answer)
 - S. ES p. 93; Evans p. 478

300/5

Bonus Question

21. Q. (Bonus) Timeline...The evolution of the horse began approximately 75 million years ago with the "Prehorse". Put the following five major forms of the horse in the correct order beginning with the most ancient form and ending with the present...

Merychippus

Pliohippus

Equus

Mesohippus

Eohippus

- A. Eohippus...Mesohippus...Merychippus...Pliohippus...Equus
- S. ES p. 9

100/5

Resume Open Questions

- 22. Q. What is the common name for the dominance hierarchy exhibited by a group of horses?
 - A. Pecking order

S. DET p. 207

910/3

- 23. Q. What term describes a stone-like mass that forms around a foreign object in the intestines of a horse?
 - A. Enterolith (also accept fecalith)
 - S. DET p. 93, 105

830/5

- 24. Q. In regards to genetics, what term refers to the ability of a sire to **consistently** transmit physical characteristic to their offspring?
 - A. Prepotency
 - S. DET p. 220

550/4

- 25. Q. What conformation defect is described by the term "wasp-waisted"?
 - A. Weak coupling or shallow in the flank
 - S. Evans p. 152

600/3

Toss Up – Bonus Attached

- 26. Q. (Bonus) What are the correct terms for the **three** colors that result from the effect of the silver dapple gene on a black, bay and chestnut horse?
 - A. Blue silver or silver dapple (black) Red silver (chestnut)

Chestnut (chestnut) (silver only affects black areas of the horse)

S. HIH 1040-2

300/4

Bonus Question

- 27. Q. (Bonus) In regards to damage to the skin, identify **and** describe the **five** main types of **open** wounds.
 - A. Abrasion superficial wound such as a scrape or scratch
 Incision wound that penetrates the full thickness of the skin
 and is caused by a very sharp object resulting in straight
 wound edges
 - Laceration (tear) wound that penetrates the full thickness of the skin but is caused by a less sharp object and results in tearing of the skin and irregular wound edges
 - Puncture wound caused by a more or less pointed object resulting in a small skin opening with soft tissue penetration
 - Avulsion wound characterized by tearing and resulting in a loose flap of skin
 - S. Evans pp. 608-709; HIH 440-1, 440-2

800/4

Resume Open Questions

- 28. Q. When interpreting a Y-TexCorporation freeze brand what does the alpha character or letter identify?
 - A. Breed of the horse
 - S. Evans p. 810

- 29. Q. (Two Part) If a mare is a carrier for an X-linked genetic disease, what percent of her male foals will be affected with the disease and what percent of her female foals will be carriers?
 - A. 50% males will be affected and 50% of females will be carriers
 - S. HIH 1060-3

550/5

- 30. Q. What is the name of the Quarter Horse that was assigned the first permanent registration number in the AQHA?
 - A. Wimpy P-1 (also accept Wimpy)
 - S. Evans p. 27

200/3

- 31. Q. In general, what phase of a foot flight pattern is being altered with shoe modifications such as heel calks, square toes or toe extensions?
 - A. Break-over (also accept landing)
 - S. Evans p. 748

900/4

Last Question of the Round

- 32. Q. The dark liver or black chestnut color is **primarily** found in what breed of horses?
 - A. Morgan
 - S. Evans p. 36

Round 11 One-On-One

- 1. C1 Q. What is the only vein that carries oxygenated blood?
 - A. Pulmonary vein
 - S. Kainer plate 57

440/4

- 2. C2 Q. What is the scientific name for the organism that is the cause of the disease EPM (Equine Protozoal Myeloencephalitis)?
 - A. Sarcocystis neurona
 - S. HIH 670-1

820/5

- 3. C3 Q. What type of equine is more efficient in digesting fiber and therefore can be fed a diet that is higher in fiber?
 - A. Donkeys
 - S. ES p. 146

700/4

- 4. C4 Q. What is the common name for the practice of applying a hot iron or needle to a blemish or unsoundness as a treatment?
 - A. Firing (also accept pin firing)
 - S. DET p. 108, 212

- 5. C1 Q. How old would a horse be that has the 1st and 2nd premolars in place?
 - A. 2 1/2 years old
 - S. Evans p. 92; Kainer plate 49

835/5

- 6. C2 Q. How does the function of the placenta differ in passive immunity when comparing equines and humans?
 - A. In the horse antibodies are **not** passed across the placental barrier (as in humans) (The foal must obtain antibodies by ingesting colostrum)
 - S. ES p. 169

510/4

- 7. C3 Q. Linden Tree, Leopard and Max are the foundation sires for this breed of horse which is often mistaken for an Appaloosa. Identify this breed.
 - A. Rangerbred Horse
 - S. Evans p. 58

200/4

- 8. C4 Q. What is the common name for ileocolonic aganglionosis?
 - A. White Foal Syndrome (also accept Lethal White Foal Syndrome and Lethal White Syndrome)
 - S. HIH 1060-6

- 9. C1 Q. What physiological event changes the follicle into the corpus hemorrhagicum?
 - A. Ovulation
 - S. Kainer plate 71; HIH 910-6

510/4

- 10. C2 Q. A rubefacient is a substance that reddens the skin and produces a mild irritation. What is the purpose of using such a substance?
 - A. Improves circulation to the area (improves healing)
 - S. DET p. 237

805/5

- 11. C3 Q. What is the proper term for the steel or wooden arms that are fitted to the collar of a harness?
 - A. Hames
 - S. DET p. 129

1000/4

- 12. C4 Q. What breed is referred to as "Skogsruss" in their homeland?
 - A. Gotland
 - S. Evans p. 75

200/4

End One-On-One

Begin Open Questions

- 13. Q. Identify **one** fibrous or cartilaginous joint that would become ossified as the horse matures.
 - A. Sutures (skull); syndesmosis (between shafts of some long bones); symphysis (pelvis); growth plate (physis, epiphysis or epiphyseal plate)
 - S. Kainer plate 15

410/4

- 14. Q. The Ellensburg tree saddle is most commonly used for what type of activity?
 - A. Bronc-busting
 - S. DET p. 26, 90

1000/5

Toss Up - Bonus Attached

- 15. Q. **Other than energy** which is provided by carbohydrates and fats, identify **two other** specific nutrients that would need to be increased in a lactating mare's diet.
 - A. Calcium, Phosphorus and protein
 - S. Lewis p. 230

Bonus Question

- 16. Q. (Bonus) Administration of intravenous fluids is essential for the correction of electrolyte and acid-base abnormalities when treating a horse with salmonellosis. Identify **three** of the most common electrolyte or acid-base abnormalities that occur.
 - A. Hyponatremia (low sodium)
 Hypochloremia (low chloride)
 Hypokalemia (low potassium)
 Hypocalcemia (low calcium)
 Acidosis
 - S. HIH 660-3

805/5

Resume Open Questions

- 17. Q. You do the math... What is the minute respiratory volume for a horse with a tidal volume of 6 liters, a residual volume of 12 liters and a respiratory rate of 15 breaths per minute?
 - A. 90 liters per minute (tidal volume x respiratory rate) (Residual volume is not a value needed for this calculation)
 - S. Evans p. 109

450/5

- 18. Q. Identify **one** substance that would provide the horse with additional calcium and phosphorus when added to feed mixtures.
 - A. Steamed bone meal or Dicalcium Phosphate
 - S. YLM 302-2

750/4

19. Q. The Taffy color common to the Australian pony is the same as what color seen in Shetland ponies.

- A. Silver Dapple
- S. Evans p. 489

300/4

Toss Up - Bonus Attached

- 20. Q. Volvulus and intussusception are veterinary terms for two conditions that may occur in the small intestine and result in colic. What anatomical abnormality does each of these terms describe?
 - A. Volvulus twisting of the small intestine Intussusception – telescoping of the small intestine (segment of the intestine in-folds into an adjacent segment)
 - S. HIH 4351-1

830/5

Bonus Question

21. Q. (Bonus) Identify six conformation defects of the front legs.

A. Splay-footed Bowlegged
Pigeon-toed Knock- kneed
Base-narrow Camped-under

Base-wide Camped-out

Bench-kneed Buck-kneed (over at the knees)
Calf-kneed (back at the knees)

S. HIH 230-1 to 230-6 600/5

Resume Open Questions

22. Q. Separation between the superficial and deep layers of the skin results in "stretchy" skin that is easily damaged or torn in this

disease. Identify this disease that primarily affects Quarter Horses.

- A. HC, HERDA or Equine Hyperelastosis Cutis
- S. HIH 675-1

550/4

- 23. Q. What is a "FLT" insurance policy?
 - A. A policy that covers injury or death that results from fire, lightening or transportation?
 - S. HIH 1340-1

920/4

- 24. Q. Trismus is a symptom exhibited in a horse with Tetanus. The definition of trismus is the **same** as the common term for this disease. What is trismus?
 - A. Lockjaw (paralysis of the jaw)
 - S. HIH 645-1

820/4

- 25. Q. When introducing new horses into a herd" bio-security" measures would include isolating the new horses for a **minimum** of how many days?
 - A. Minimum of 14 days
 - S. ES p. 195

920/4

Toss Up - Bonus Attached

- 26. Q. Identify three ways to hot process grains.
 - A. Steam flaking, crimping, popping, micronizing, extruding or pelleting

S. Lewis p. 76

790/4

Bonus Question

27. Q. (Bonus) Timeline... Correctly follow the blood flow through the heart and lungs beginning with blood entering the heart via the cranial vena cava. Organize the following **seven** anatomical terms in the correct order to complete this task.

Cranial vena cava

Left ventricle

Pulmonary vein

Right atrium

Pulmonary artery

Lungs

Aorta

A. Cranial vena cava

Right atrium

Pulmonary artery

Lungs

Pulmonary vein

Left ventricle

Aorta

S. Kainer plate 57

440/5

Resume Open Questions

- 28. Q. The combination of copper, nickel and stainless steel is known as what type of substance in regards to materials used to make bits?
 - A. German Silver

S. HIH 1100-10

1000/4

- 29. Q. Which accessory gland in the stallion provides the thin watery fluid that cleanses the urethra during ejaculation?
 - A. Prostate
 - S. Evans p. 360

480/5

- 30. Q. What term is used to describe the flowing movement of the forelegs of the Peruvian Paso in which the forelegs roll to the outside as the horse strides forward?
 - A. Termino
 - S. Evans p. 43

640/4

- 31. Q. What is the common name for the parasite Dictyocaulus arnfieldi?
 - A. Lungworm
 - S. Lewis p. 159

835/5

Last Question of the Round

- 32. Q. What is the common name for the internal parasite Trichostrongylus which is usually only seen in horses grazed with ruminants?
 - A. Hairworms
 - S. Lewis p. 158, p. 407

Extra Bonus Questions

1. Q. (Bonus) Identify the **five** coriums that nourish the hoof.

A. Perioplic corium

Frog corium

Coronary corium

Sole corium

Laminar corium

S. Evans p. 696

415/5

2. Q. (Bonus) Give the common and scientific name for each of the three types of bot flies.

A. Common bot fly

Gastrophilus intestinalis

Throat bot fly

Gastrophilus nasalis

Nose bot fly

Gastrophilus hemorrhoidalis

S. YLM ADV 300-4L

835/4

3. Q. (Bonus) Identify **four** "general" ways in which dried hay can be processed or packaged for feeding or storage.

A. Stacked

Cubed (wafers)

Chopped

Pellets

Baled (round, square or rectangular would be considered one answer)

S. Lewis p. 65

780/4

4. Q. (Bonus) Identify **four** vaccinations that a foal should receive by the age of 6 months.

A. Tetanus (toxoid)

Rhinopneumonitis

Influenza

Rabies

Encephalomyelitis

(Also accept Botulism on farms where disease has been documented)

S. HIH 950-10

Extra One on One Questions 100

- 1. Q. In regards to the history of the horse, what event took place during the Pleistocene epoch in North America?
 - A. The horse became extinct in North America
 - S. Evans p. 4

100/3

- 2. Q. In the history of Spain at the time of Queen Isabella, what was a Golden Isabella?
 - A. Palomino horse
 - S. Evans p. 50

100/4

200

- 3. Q. The Trottingbred is a synthetic pony breed developed for sulky racing. Similar to Standardbreds, some are trotters and others are pacers. What is the difference in the distance that they are raced?
 - A. They race ½ mile (Standardbreds race 1 mile)
 - S. Evans p. 67

200/5

- 4. Q. The Americana is a synthetic pony breed that resulted from the crossing of what **two** breeds?
 - A. Shetland and Hackney
 - S. Evans p. 66

200

- 5. Q. What term refers to a wild Australian horse?
 - A. Brumby
 - S. DET p. 41

200/3

300

- 6. Q. What term describes a splotch of dark color on a base coat color?
 - A. "Blood mark"
 - S. ES p. 39

310/3

- 7. Q. The Cheyenne Indians thought Spanish mustangs with what color pattern possessed supernatural powers of protection?
 - A. "Medicine Hat" pattern
 - S. Evans p. 56

310/3

400

- 8. Q. Where would you find the Purkinje fibers?
 - A. In the heart muscle (also accept heart or cardiac muscle)
 - S. Kainer plate 58

400

- 9. Q. What is the medical term for the tiny, finger-like extensions of the lining of the small intestine that increase absorption of nutrients by increasing the surface area?
 - A. Villi
 - S. DET p. 283

430/5

- 10. Q. What is micturition?
 - A. Urination
 - S. Evans p. 119

470/4

- 11. Q. Fossa and tuberosity are terms used to describe bones. In general, what do these **two** terms describe?
 - A. Fossa hollow or depressed area Tuberosity – large prominence or projection
 - S. DET p. 113, 275

410/4

- 12. Q. What muscle causes the hair to stand on end and helps to keep the horse warm in cold weather?
 - A. Erectores pilorum
 - S. DET p. 99

- 13. Q. When a foal is in the transverse ventral presentation for delivery, what part of the foal's body is lodged against the pelvis of the mare and preventing the delivery of the foal?
 - A. The foal's back
 - S. Evans p. 424

500/4

- 14. Q. What is the function of the arteries and veins known as the pampiniform plexus in the stallion?
 - A. Heat exchange to the testes
 - S. YLM 327-1

520/5

- 15. Q. During a difficult delivery, repulsion would describe what action by the veterinarian or foaling attendant?
 - A. Pushing the fetus back into the uterus (done before correcting any incorrect birthing positions)
 - S. DET p. 232

500/5

600

- 16. Q. A horse with a base-narrow, toe-out conformation in the forelegs would exhibit the gait defect known as plaiting. What is the common term for plaiting?
 - A. Rope walking
 - S. Kainer plate 39

640/4

600

- 17. Q. What slang term describes legs in which the tendons lack definition or do not stand out clearly?
 - A. Gummy-legged

S. DET p. 126

620/5

700

- 18. Q. It is important for a foal to receive colostrum within 36 hours after parturition. What are the **two** things that colostrum provides the foal?
 - A. Colostrum is a laxative and provides the foal with antibodies
 - S. Evans p. 427

480/4

- 19. Q. The molds Fusarium moniliforme and Fusarium proliferatum cause what feed-related poisoning?
 - A. Moldy corn disease or Leukoencephalomalacia
 - S. Lewis p. 358

790/5

- 20. Q. A soluble-fiber bulk agent such as Metamucil would be administered to a horse with diarrhea that is a result of what type of ingestion?
 - A. Sand ingestion
 - S. Lewis p. 293

- 21. Q. What is the common name for osteodystrophia fibrosa?
 - A. Big head Disease (also accept Miller's Disease or Bran Disease)
 - S. ES p. 132; Evans p. 227

7504

- 22. Q. What type of Rhinopneumonitis may invade the brain and spinal cord causing incoordination, paralysis and recumbency?
 - A. EHV-1 (Equine Herpes Virus Type 1)
 - S. HIH 610-1

850/4

- 23. Q. What is the common name for the medication Magnesium Sulfate?
 - A. Epsom Salts (used to treat a hoof abscess or as a laxative)
 - S. DET p. 98

805/3

- 24. Q. What are the scientific names for the three types of large strongyles?
 - A. Strongylus vulgaris, Strongylus edentatus, Strongylus equinis
 - S. Lewis p. 155

835/4

- 25. Q. What type of medication is an alcohol based substance applied to the horse's legs after exercise to prevent swelling?
 - A. Brace (also accept liniment)
 - S. DET p. 36, 169

- 26. Q. Pasture management guidelines recommend that horses be rotated to another pasture when the grass is a **minimum** of what height?
 - A. Minimum of 3-4 inches (accept anything within this range)
 - S. HIH 3604

920/3

- 27. Q. When talking about the management of horse facilities, what do the initials BMP stand for?
 - A. Best Management Practices
 - S. HIH 360-1

920/4

- 28. Q. In a ranch operation, what is the purpose of a boundary rider?
 - A. To ride the fences of the property and repair any problems
 - S. DET p. 36

920/3

1000

- 29. Q. (Two Part) Where would you find an elliptic spring on a carriage and what is its purpose?
 - A. Spring under the seat; to absorb shock
 - S. DET p. 90

1000/5

1000

30. Q. What is the slang term for a buck strap used by a novice

when riding a bucking horse?

- A. "Fraidy strap"
- S. DET p. 42

1060/4

- 31. Q. What is a flat race?
 - A. A race without jumps
 - S. DET p. 109

1040/2

- 32. Q. Kur is the term for what type of musical freestyle performance?
 - A. Dressage
 - S. DET p. 162

Extra Toss Up Questions

- 1. Q. Identify **two** of the three anatomical structures found in the umbilical cord.
 - A. Artery (two), vein and urachus
 - S. Kainer plate 72

500/4

- 2. Q. A horse with chronic renal failure would require a diet that has less of certain nutrients. Name **two** of these nutrients.
 - A. Protein, calcium, phosphorus
 - S. Lewis p. 296

700/4

- 3. Q. Identify **two** body systems where you would find the wave-like projections on cells known as cilia.
 - A. Respiratory and reproductive (mare) systems
 - S. Kainer plate 67, 70

450/480/5

- 4. Q. When your horse is carrying a pack load down a steep grade, what **two** items of tack will need to be adjusted or pulled tighter?
 - A. Breeching and cinch
 - S. YLM 118-1L

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One-On-One

1 C1	Q.	At what age do the permanent 3rd or corner incisors erupt?		
	A.	4 1/2 years		
	S.	HIH 240-1	430/2	
2 C2	Q.	Night eyes are a common name for wh	at structure on the horse?	
	A.	Chestnuts		
	S.	Kainer plate 4	460/2	
3 C3	Q.	White markings covering the area from the coronet band to the area below the fetlock would be called what?		
	A.	Pastern		
	S.	Evans pg 83, HIH 140-2	310/1	
4 C4	4 C4 Q. What type of leg interference can brushing and strik classified as?		ishing and striking be	
	A.	Supporting		
	S.	Evans pg 179	600/2	

5 C1	Q.	Osselets is the term for an inflammation of the periosteum on the anterior surface of what joint?		
	A.	Fetlock		
	S.	Evans pg 161, Lewis pg 398	810/2	
6 C2	Q.	The sole of the hoof is flatter on which rear?	ch pair of feet – front or	
	A.	Front		
	S.	YLM – 321-2	410/2	
7 C3	Q.	Are most poisonous plants "more" or matures?	r "less" toxic as the plant	
	A.	Less toxic		
	S.	Lewis pg. 303-3698	770/3	
8 C4	Q.	What feed additive is commonly used increase palatability of a feed?	to reduce dust and	
	A.	Molasses		
	S.	HIH 760-7	700/2	

9 C1	Q.	What category of muscle is found in all of the following systems – Digestive, respiratory, circulatory, integument a urogenital	
	A.	Smooth muscle	
	S.	HIH 840-1	410/3
10 C2	Q	Standing in urine and wet manure wi the waxy-like waterproof covering of proper name for this covering?	
	A.	Periople	
	S.	Lewis pg 178	415/3
11 C3	Q. What is the proper name for the joint located betwee femur and the tibia?		located between the
	A.	Stifle	
	S.	Evans pg 91	410/2
12 C4	Q.	Parrot mouth or overshot jaw is a coninvolving what bone?	nformation defect
	A.	Mandible	
	S.	Evans pg 144	620/2

End One-On-One

Begin Open Questions

13	Q.	How did the land bridges which formed during the Ice Age affect
		the history of Equus?

- A. They allowed Equus to migrate from North America throughout the rest of the world.
- S. Evans pg 4

100/3

- Q. What is the common name of the bacterial disease of younger horses that affects the salivary glands and lymph nodes in the submandibular and retropharyngeal area?
 - A. Strangles, equine distemper, shipping fever
 - S. Evans pg 96

850/2

Toss Up - Bonus Attached

- 15 Q. (Two part) What two things are found in the sensitive laminae of the hoof that cause it to be called sensitive?
 - A. Nerves and blood vessels.
 - S. HIH 505-2

415/3

Bonus Question

- 16 Q. (Bonus question) From proximal to distal name the three joints of the horses legs that are common to all four legs.
 - A. Fetlock, pastern and coffin
 - S. Evans pg 98

Resume Open Questions

17	Q.	Horses are at greatest risk for plant poisoning under what
		environmental conditions?

- A. When pastures are overgrazed and noxious weeds are able to proliferate, often due to poor pasture management or drought.
- S. Lewis pg 301

770/3

- Q. What structure of the hoof am I? I am arched in shape, I provide some weight support, I flatten slightly to help absorb concussion, but my primary function is protection.
 - A. The sole of the hoof
 - S. HIH 505-2, 4

415/2

- 19 Q. How many pounds of manure does a 1000 pound horse produce per day?
 - A. 45-50 pounds
 - S. HIH 360-2

920/2

Toss Up – Bonus Attached

- Q. (Two Part) When considering vision, where are the horse's two blind spots?
 - A. Directly to the rear, behind its hindquarters Directly below the head, or directly in front
 - S. HIH 1220-1

Bonus

21 Q. (Bonus question) There are four types of hock Spavin. Name them.

A. Blind/Occult
Bog spavin

Blood spavin
Bone/True/Jack spavin

S. Lewis pg 404

810/3

Resume Open Questions

- Q. What breed is being described this draft breed is a descendant of the medieval charger breed, its color is all shades of chestnut, and it originated in Suffolk County, England.
 - A. Suffolk Punch
 - S. DET pg 259

200/2

- Q. Thoroughpin is a soft, fluid-filled enlargement of the outside of the joint that can be pushed freely from the outside to the inside surface of the joint by palpation. What joint is it found in?
 - A. The hock
 - S. Evans pg 165, Lewis pg 406

640/3

- Q. In case of an emergency what two pieces of equipment should be outside every horse's stall?
 - A. Halter and lead
 - S. Evans pg 822

- Orphan foals have a very high dietary energy requirement and should be fed how often during the first 1-2 weeks of life?
 - A. Every 2 to 4 hours
 - S. Kainer plate 69, Lewis pg 275

500/3

Toss Up - Bonus Attached

- Q. (Two part) The bones and the teeth contain the majority of what two minerals found in the horses body?
 - A. Calcium and phosphorus
 - S. Lewis pg 20

750/2

Bonus

27 Q. (Bonus question) Name four different types of grass forage

A.	Bermuda Grass	Reed Grass	Wheat Grasses
	Canary (reed) Grass	Bluegrass	Digit Grasses
	Sudan Grass	Brome Grass	Redtop
	Tall Fescue	Orchard Grass	Bahia Grasses
	Timothy	Rye Grass	Johnson Grass
	Sorghum	Sudex	Millet

S. YLM 102-1, Lewis pg 109-110 780/3

Resume Open Questions

- Q. What color hair mixes with white hairs in a strawberry roan?
 - A. Chestnut
 - S. Evans pg 81 300/2

- Q. Thrush is a black, strong smelling infection of the hoof that causes destruction of the frog. Is it caused by aerobic or anaerobic bacteria?
 A. Anaerobic bacteria
 - S. YLM 334-1

30. Q. A horse's body fat can be estimated using what method of evaluation?

- A. Body condition scoring
- S. HIH 720-3

710/2

815/2

- 31 Q. When driving a horseshoe nail, the nail is started with the flat of the nail oriented in what direction?
 - A. The flat side is oriented to the outside.
 - S. Evans pg 745

900/3

Last Question of the Round

- Q. How old would a horse be with all adult teeth present and Galvayne's groove beginning to show at the gum margin of the upper corner incisor?
 - A. 10 years old (accept range of 9 to 10 years old-DET pg 117)
 - S. YLM 205-2, HIH 240-4, DET pg 117 430/3

One-On-One

1 C1	Q.	What structure transfers the horse's weight from the bony structure to the hoof wall?		
	A.	Laminae		
	S.	HIH 505-1	415/3	
2 C2	Q.	What is the first structure which light entering the horse's ey would pass through?		
	A.	The cornea		
	S.	Evans pg 123, DET pg 69	420/3	
3 C3	Q.	At what age do the deciduous 3rd or corner incisors erupt?		
	A.	6 to 9 months		
	S.	HIH 240-1	430/2	
4 C4 Q. Which portion of the topline is most important in the saddle on without the need to excessively tight				
	A.	Withers		
	S.	HIH 220-6	600/2	

5 C1	Q.	What is the most critical conformational factor in the balance of the horse?		
	A.	Slope of the shoulder		
	S.	HIH 220-6	600/3	
6 C2	Q.	In inches, how tall is a 15 hand horse	?	
	A.	60 inches		
	S.	IDET 129	220/3	
7 C3	Q.	What is the most common cause of corns?		
	A.	Leaving a short heeled shoe on too long.		
	S.	YLM 334-1	815/3	
8 C4	Q.	An accumulation of fluid in the alveoli from an infectio pulmonary problem would be termed what?		
	A.	Pneumonia		
	S.	Evans pg 110	450/3	

9 C1	Q.	Where in the female reproductive tract does fertilization of the ova occur?		
	A.	Oviduct (in the ampulla)		
	S.	HIH 910-3	510/3	
10 C2	Q.	Does the horse consuming growing forage need to drink any additional water?		
	A.	No		
	S.	Lewis pg 4	700/2	
11 C3	Q. Which parasite of the horse – whose adults live prime horse's colon and rectum – deposit eggs around the recause local irritation?			
	A.	Pinworms (Oxyuris equi)		
	S.	Lewis pg 158	830/3	
12 C4 Q. Knobs are found on the end of which farrier too be easily distinguished from nippers?				
	A.	Pull offs or pinchers		
	S.	YLM 116-1	900/2	

End One-On-One

Begin Open Questions

- 13. Q. What breed of horse is best described as a horse with a small build, long arching neck, high tail carriage, chiseled head, and a dished face?
 - A. The Arabian
 - S. HIH 150-1, Evans, p. 17

200/2

- 14 Q. Most plant poisonings occur in horses during what 2 seasons?
 - A. Spring and summer
 - S. Lewis pg 301

770/3

Toss Up - Bonus Attached

- 15 Q. Name two causes of acute laminitis.
 - A. Enterotoxemia from excessive grain intake

Excessive foot concussion or fatigue

Sudden weather changes

Infections Allergies

Toxins or poisons Colic

Changes in feed

Drugs

Retained placenta (foal founder)

S. YLM 334-2

815/3

Bonus Question

- 16 Q. Bonus question Thee are over 150 types of internal parasites of the horse. Name the four most significant different types.
 - A. Strongyles (lg/sm)

Pinworms

Roundworms

Bots

S. HIH 430-1

Resume Open Questions

17	Q.	What type of long bone fractures is more common in the young colts?				
	A.	Physeal or growth plate fractures				
	S.	Kainer plate 13 810/3				
18	Q.	Identify the horse color from the following description – body color yellowish or gold; mane and tail black; usually black on the lower legs, and usually no dorsal stripe.				
	A.	Buckskin				
	S.	HIH 140-1 300/2				
19	Q.	What is the common name for the larval stage of <u>Gastrophilus</u> <u>nasalis</u> ?				
	A.	Bot				
	S.	Evans pg 633 880/3				
Toss	s Up –	Bonus Attached				
20	Q.	(Two Part) There are 64 total chromosomes in each cell of the hors Of these how many are autosomes and how many are sex chromosomes?	se.			
	A.	62 autosomes and 2 sex chromosomes				
	S.	HIH 1060-1 550/2				

Bonus

- Q. (Bonus Question) Name four ways teeth can be used to age an adult horse?
 - A. Occurrence of permanent teeth (eruption)
 Disappearance of cups (would include presence of dental stars or enamel spots)
 Angle of incidence
 Shape of the surface of the teeth
 Galvayne's groove
 Hook on upper corner incisors
 - S. YLM 205-2, Lewis pg 177-8 430/3

Resume Open Questions

- Q. What is the absolute minimum stall size recommended by the AYHC for a horse?
 - A. 10 foot by 10 foot
 - S. YLM 107-2

920/2

- Q. What is the primary vessel that carries blood from the heart to the rest of the body?
 - A. Aorta
 - S. Kainer plate 57

440/3

- Q. In visually examining a pasture, what characteristic of the pasture would be most closely correlated with the content of Vitamin A available to your horse feeding on that pasture?
 - A. The green color of the pasture.
 - S. Lewis pg 46

- Q. Aluminum horseshoes have the advantage over steel horseshoes of being lighter in weight, but have what disadvantage compared to a steel shoe?
 - A. Aluminum shoes wear faster.
 - S. YLM 231-2

900/3

Toss Up - Bonus Attached

- Q. (Two Part) Wood board fences are traditional for horses. They are rugged, safe and easily seen. What two financial reasons have seen an increase in newer types of fences over wood?
 - A. Expensive to build and expensive to maintain
 - S. Evans pg 761

920/3

Bonus

- Q. (Bonus question) From proximal to distal name the seven joints of the caudal leg.
 - A. Sacroiliac, hip, stifle, hock, fetlock, pastern and coffin.
 - S. Evans pg 98

410/3

Resume Open Questions

- Q. What fitting is being described by the terms string, elastic–end contour, threefold and balding?
 - A. Girths
 - S. HIH 1100-3

Prolonged consumption of plants that contain oxalate may cause 29 Q. the deficiency of what mineral to develop? Calcium A. S. Lewis pg 302 770/3 30. At what age should foals be introduced to concentrates? Q. A. 1 to 2 months (also accept as early as the foal shows interest) S. 700/3 HIH 783–2 What do weighted shoes do to a horse's action? 31 Q. Enhance leg action by changing the timing of and adding A. momentum to hoof flight patterns. S. YLM 231-2 900/3 **Last Question of the Round** 32 What is another term for the distal sesamoid bone? Q. A. The navicular bone (shuttle bone) S. DET pg 82 410/2

One-On-One

1 C1	Q.	What is the common name for the membrane of the eye that helps remove foreign materials and is also called the third eyelid or nictitans? Haw (Haws) (Do not accept nictitans, 3 rd eyelid or nictitating membrane – not common terms)		
	A.			
	S.	DET pg 67, Evans pg 126	420/3	
Q. The coronary cushion is the extremely the hoof?		The coronary cushion is the elastic pothe hoof?	ortion of what structure of	
	A.	Coronary band		
	S.	HIH 505-5	415/3	
3 C3	Q.	A double dilution of the bay color res	cults in what color?	
	A.	Perlino		
	S.	Evans pg 81	300/2	
4 C4	Q.	What part of the equine digestive trace jejunum and the cecum?	et is found between the	
	A.	Ileum		
	S.	Kainer plate 51	430/2	

5 C1	Q.	What is required in the diet A, D, E and K?	to aid in the absorption of vitamins
	A.	Fat	
	S.	Lewis pg 22	740/3
6 C2	Q.	Name the four chambers of	f the heart.
	A.	Right and left ventricle, rig	tht and left atrium
	S.	Kainer plate 58	440/2
7 C3	Q.	In the conformational defe bone is set too far to the ou	ct bench knee or offset knee, what itside of the knee?
	A.	Cannon bone, 3 rd metatarsa	al
	S.	HIH 230-3	600/2
8 C4	Q.	throughout the horse's bod	arge number of diverse activities by, but an excess or deficiency of it y causing disease in only one major n?
	A.	Skeletal system (bones)	
	S.	Lewis pg 20	750/2

9. C1 Q. What sense of the horse from the rider?		What sense of the horse is the most of from the rider?	essential in taking cues
	A.	Sense of touch	
	S.	HIH 1220-2	420-3
10 C2	Q.	What mineral functions jointly with body tissues from oxidation-induced	_
	A.	Selenium	
	S.	Lewis pg 28	750/3
11 C3	Q.	Will the edges of a crack in the hoof or quarter crack – heal together if th immobilized?	
	A.	No – the hoof must grow out to elin	ninate the crack.
	S.	YLM – 334-2	815/3
12 C4	Q.	What nutritional component of the omnitoring if you are measuring the regular basis?	
	A.	Energy	
	S.	HIH 820-1	710/3

End One-On-One

Begin Open Questions

- 13 Q. Horses that eat new leaves and acorns from oak trees are poisoned by what substance?
 - A. Tannic acid
 - S. Lewis pg 303

770/3

- 14 Q. The disturbance of the blood flow and the bond of the sensitive laminae to the horny laminae is the cause of what disease?
 - A. Laminitis (accept founder not really correct in current thinking, but used in Evans as similar events)
 - S. YLM 334-2

815/3

Toss Up - Bonus Attached

- 15 Q. What two additional gaits does the 5 gaited Saddlebred perform that the 3 gaited does not?
 - A. Slow gait (stepping pace) and rack (not single-foot this is a classification to describe all four beat artificial gaits)
 - S. Evans pg 39-40, 178

200/3

Bonus Question

- Q. (Bonus question) When examining a horse, what three things would you evaluate when looking at the mucous membranes?
 - A. Color, moistness, and capillary refill time
 - S. HIH 425-2

Resume Open Questions

17	Q.	What tool is used to level the bearing surface of the hoof after it has been trimmed by the nippers?		
	A.	Rasp		
	S.	YLM 116-1	900/2	
18.	Q.	The following statements are about forages. Which one is false? a. Forages are high in calcium and low in phosphorus b. Forages are high in fiber c. Forages are high in digestible energy		
	Α.	C – forages are low in digestible en	ergy	
	S.	Lewis pg 63	700/4	
19	Q.	Electrical wiring in a barn is always hazards. Why?	s run in conduit to minimize fire	
	A.	To prevent chewing or rubbing by h	norses	
	920/2			
Toss	Up –	Bonus Attached		
20	Q.	(Two Part) What are the two function	ons of the long bones of the horse?	
	A.	They act as <u>levers</u> and provide <u>supp</u> movement of the horse	port for the weight and	
	S.	Evans pg 90	400/3	

Bonus

- 21 Q. (Bonus question) Name four functions of the horse's kidneys?
 - A. Production of urine excretes waste products
 Filter the blood cleanse
 Control water balance
 Control pH
 Maintain electrolyte balance
 - S. Evans pg 119

470/3

Resume Open Questions

- Q. What is the "proper term" for the allergic skin reaction commonly called hives or protein bumps?
 - A. Urticaria
 - S. DET pg 280

860/3

- Q. What breed of horse is described as having contributed to almost every major American horse breed and is the oldest of the American breeds: Unlike most breeds this breed traces its foundation to a single stallion named Figure and is the only breed named after a horse.
 - A. The Morgan
 - S. HIH 151-1, Evans pg 6

0200/2

- Q. Buttercups are toxic to horses when consumed on pasture. Why would buttercups in hay not be considered toxic?
 - A. They are not toxic when they are dried
 - S. Lewis pg 306

- Q. What infection of the horses hoof would be comparable to human onychomycosis or nail fungus?
 - A. White line disease (Fungal infection)
 - S. YLM 334-1

815/3

Toss Up - Bonus Attached

- Q. (Two Part) What are two advantages of using bedding for your horse that is more absorbent?
 - A. You use less bedding and replace it less frequently (also less labor and less expensive)
 - S. HIH 330-1

920/3

Bonus

- Q. (Bonus question) If you were going to trim a horse's hoof, what are the four essential tools you would need to have?
 - A. Hoof pick
 Hoof knife (Farrier's knife)
 Nippers
 Rasp
 - S. Evans pg 722

900/3

Resume Open Questions

- Q. The length of the horse's stride and frequency of the stride define what?
 - A. Speed
 - S. Evans pg 169

29	Q.	seat, forward flap, most popular type of forward seat saddle use for multiple disciplines.				
	A.	All purpose saddle				
	S.	HIH 1100-1	1000/2			
30.	Q.	What term would be defined as the degree of expression of a trait for which the horse has the gene?				
	A.	Penetrance				
	S.	HIH 1060-2	550/4			
31	Q. A. S.	Why does a horse's refusal to ear indicate that it is spoiled or unpartitions. Horses tend to prefer grains that initially reject changes. Lewis pg 73				
Last	Ques	tion of the Round				
32	Q.	In horse racing what distance de yards or 1/8 of a mile?	scribes the distance of 40 rods, 220			
	A.	1 Furlong				
	S.	DET pg 116, Evans pg 20.	1040/2			

One-On-One

1 C1	Q) .	In what part of the horse's digestive tract does the majority of sound-generating digestive action occur?	
	A	λ.	Cecum	
	S	•	HIH 710-2	430/3
2 C2	Ç	Q. What is the common term to describe a swelling of the subcutaneous bursa over the calcaneal tuber that is part of t calcaneous bone of the hock?		_
	A	A .	Capped hock	
	S	S	Kainer Plate 32	620/3
3 C3	(Q.	Based on cost per unit of energy, and which is cheaper?	comparing corn and oats,
	A	A .	Corn	
	S	S	YLM 302-2	710/3
4 C4	(Q.	In what joint is the most common land Standardbred used for harness racing	
	A	4 .	Hock	
	S	S.	Evans pg 155	810/3

5 C1	Q.	What chamber of the heart is the primary pumping chamber for moving oxygenated blood to the body?		
	A.	Left ventricle		
	S.	Kainer plate 57	440/3	
6 C2	Q.	Located beneath the ear, what is the salivary glands?	largest of the horse's three	
	A.	Parotid salivary gland		
	S	DET pg 205	430/3	
7 C3	Q.	Epiphora is the result of a blocked nasolacrimal duct and result in the overflow of what fluid?		
	A.	Tears		
	S.	Kainer plate 45	420/3	
8 C4	Q.	What hoof disease is commonly a redirty wet living conditions for the ho	_	
	A.	Thrush		
	S.	HIH 540-1	815/3	

9 C1	Q.	What is the proper name (genus and species) of the most dangerous of the three large strongyles?	
	A.	Strongylus vulgaris	
	S.	HIH 430-2	835/3
10 C2	Q.	What type of gene action is demonstrated when a trait of a horse is the result of the additive effect of many genes?	
	A.	Quantitative	
	S.	HIH 1020-3	550/3
11 C3	Q.	Endocarditis is an inflammation or in what organ?	afection of the lining of
	A.	Heart	
	S.	DET pg 91	840/3
12 C4	Q.	Lactating mares have an increased no loss of water from what?	eed for water due to the
	A.	Milk production	
	S.	Lewis pg 4	700/2

End One-On-One

Begin Open Questions

- 13 Q. Your horse spooks unexpectedly, looking quickly to the side, but you see nothing that could have caused this. Why might you suspect your horse was frightened by a noise even though you did not hear anything?
 - A. Horses can hear sounds above the frequency range of human hearing.
 - S. Evans pg 121

420/3

- 14 Q. What type of hammer would you use to shape and make shoes on the anvil?
 - A. Rounding or turning hammer
 - S. YLM 116-2

900/2

Toss Up – Bonus Attached

- 15 Q. (Two Part) What hormone in the horse helps control glucose levels by decreasing them and in what organ is it produced?
 - A. Insulin, pancreas
 - S. Evans pg 127, Kainer plate 54

490/3

Bonus Question

- Q. (Bonus Question) The Paso Fino performs a unique four-beat lateral gait that is essentially a broken pace that can be performed at three different speeds. What are the proper names for these three gaits?
 - A. Paso largo, Paso corto, Paso fino
 - S. Evans pg 178

Resume Open Questions

17	Q.	Other than dust and mold, what ventilation problem does storing
		hay above stalls create?

- A. Retention of heat and moisture (accept either also accept fire it would cause a ventilation problem and is a negative aspect of storing hay)
- S. YLM 107-3

920/3

- Q. Name the breed that includes the following famous names in its history Messenger, Greyhound, Hambletonian, Dan Patch, and Niatross.
 - A. Standardbred
 - S. Evans pg 28-9

200/3

- 19 Q. What Western saddle is being described? Straight leg position, deep seat, tall horn, high cantle, rounded flap and lightweight.
 - A. Barrel racing (gymkhana) saddle
 - S. HIH 1100-5

1000/2

Toss Up - Bonus Attached

- Q. (Two part) The term ergot has two distinct meanings. What are they?
 - A. Ergot is a fungus found on cereal grain plants that is toxic to horses A small horny growth at the base of the fetlock
 - S. Lewis pg 388

Bonus

Q. (Bonus Question) No deworming schedule fits all horses. Most veterinarians recommend deworming four times a year. List four factors that would influence your deworming program.

A. Climate Humidity
Rainfall Season

Concentration of horses Size of pasture

Age of horses Parasite infection history
Travel of horses out of facility Fecal sample evaluation

S. HIH 430-7 700/3

Resume Open Questions

- Q. Name one of the eight states in the U.S. that has excessively selenium-rich soils due to native plants?
 - A. California, Colorado, Idaho, Montana, Oregon, South Dakota, Utah, and Wyoming.
 - S. Lewis pg 325 770/3
- Q. A tumor of pigment forming cells called a melanoma is most common in which color horse?
 - A. Gray
 - S. Evans pg 514 860/3
- Q. Sickle hock is a conformational defect that places heavy strain on the long plantar ligament of the hock and predisposes the horse to what joint problem?
 - A. Curb
 - S. Kainer plate 40 620/3

- Q. Using wood shavings for bedding is more costly than using straw, but the additional cost can be justified financially by savings in what area?
 - A. Labor
 - S. HIH 330-1

920/3

Toss Up - Bonus Attached

- Q. (Two part) In reference to horses, what two purposes does Epsom salts serve?
 - A. Laxative or to treat a foot abscess or bruise
 - S. DET pg 98

870/3

Bonus

- 27 Q. (Bonus Question) Give 3 symptoms of liver failure.
 - A. Weight loss

Depression

Abnormal behavior

Icterus (jaundice)

Bloody urine

Anemia

Photosensitization

S. Lewis pg 310

800/4

Resume Open Questions

- Q. An egg bar horseshoe is used to provide additional support to what part of the hoof?
 - A. Rear portion or heels.
 - S. HIH 515-4

29	Q.	In feeding, what is the best way to insure the horse has adequate salt intake?			
	A.	Have salt available <u>free choice</u> – the he to meet its needs.	orse will consume enough		
	S.	Lewis pg 25	750/3		
30.	Q.	What is the most common symptom of	f black walnut poisoning?		
	A.	Founder (laminitis)			
	S.	Lewis pg 323	770/3		
31	Q.	Explain why a boticide should be give	en one month after the first frost?		
	A.	The frost will kill the adult flies which larvae. After one month any larvae wi stomach and will be subject to the effective of the effective	ll have migrated to the		
	S.	Lewis pg 161	830/4		
Last	Questi	on of the Round			
32	Q.	What term id used to describe the mid	Idle team in a six horse hitch?		
	A.	Swing team			
	S.	DET pg 261	1050/3		

One-On-One

1 C1	Q.	The hypothalamus controls many endocrine functions by releasing hormones that directly affect what other gland?	
	A.	Pituitary gland	
	S.	Evans pg 126	490/3
2 C2	Q.	The lens lies behind the pupil and fo the image on what structure?	cuses the light rays to form
	A.	Retina	
	S.	DET pg 167	420/3
3 C3	Q.	The two tough sheet-like structures of support what organ in the horse's ab	_
	A.	Uterus	
	S.	HIH 910-3	480/3
4 C4	Q.	What is the proper term for the proc and count chromosomes under the n	
	A.	Karyotyping	
	S.	HIH 1060-1	550/3

5 C1	Q.	What structure is commonly found on a barn roof and functions to properly ventilate the barn?		
	A.	Cupola, ridge vents		
	S.	HIH 320-8	900/3	
6 C2	Q.	Wheat bran is a by-product that can last a source of additional fiber. What bran?		
	A.		The bran is the outer covering of the wheat kernel which is removed during the cleaning and processing of the grain	
	S.	HIH 760-8	700/3	
conve		Which nutrient can be used for energy conversion to energy and is common tissue maintenance?		
	A.	Protein		
	S.	HIH 820-1	760/3	
8 C4	Q.	What group of parasites are the most of all of the equine's parasites?	t significant and common	
	A.	Strongyles (bloodworms)		
	S.	HIH 430-1	835/3	

9 C1	Q.	What is the common name for an infebursa?	ection of the cranial nuchal
	A.	Poll evil	
	S.	Kainer plate 20	810/3
10 C2	Q	Dicoumarol in moldy sweet clover af causing a deficiency of which vitamin	
	A.	Vitamin K	
	S.	Lewis pg 332	770/3
11 C3	Q.	Which nutrient has the highest energy	y density?
	A.	Fat	
	S.	YLM 302-2	710/3
12 C4	Q.	What term refers to a remedy used to	counteract a poison?
	A.	Antidote	
	S.	DET pg 12	770/3

End One-On-One

Begin Open Questions

13	Q.	_	described – normally a centerfire- a half-breed, and is best suited for sl	ling
	A.	Decker	Annual Parisin	
	S.	HIH 1125-1	1020/3	
14	Q.	yellowish or gold; mane an	m the following description – body of tail may be black, brown, red, ally has a dorsal stripe, zebra stripes ver the withers.	
	A.	Dun		
	S	HIH 140-1	300/3	
Toss	s Up –	Bonus Attached		
15	Q.	(Two Part) What are the tw	o major components of blood?	
	A.	Plasma (not serum) and ce	ls	
	S.	Evans pg 117.	440/3	
Bon	us Que	estion		
16	Q.	(Bonus question) From a g colors of the horse?	enetic standpoint, what are the three	basic
	A.	Black, bay, and chestnut.		
	S.	HIH 1040-1	550/4	

Resume Open Questions

17	Q.	What is the primary means through spread?	h which internal parasites are
	A.	Manure	
	S.	HIH 430-4	835/3
18	Q.	What advantage do web or rubber	reins provide over plain reins?
	A.	More secure grip, not slippery who	en wet.
	S.	HIH 1100-6	1000/2
19	Q.	What form of malnutrition is the natural the United States?	nost common one seen in horses in
	A.	Obesity	
	S.	Evans pg 218	700/3
Toss	Up –	Bonus Attached	
20	Q.	(Two Part) The epiglottis helps di	

- Q. (Two Part) The epiglottis helps direct the movement of materials through the pharynx into what two major tubular structures that exit the rear aspect of the pharynx?
 - A. Trachea and esophagus
 - S. Kainer plate 50, Evans pg 105 450/3

Bonus

Q. (Bonus Question) Excessive salivation or slobbering may be caused by trauma to the mucous membranes of the mouth from a variety of plants and grasses. Identify three other causes (other than plants) of this symptom.

A. Choke Sharp points on the teeth
Poorly fitting bits Inappropriately used bits
Infectious diseases of the mouth (ex. Vesicular stomatitis)
Horses bedded on wood shavings containing bitter weed
Drugs Old toothless horses

S. Lewis pg 301

830/4

Resume Open Questions

- Q. An abscess of the hoof can cause intense pain and lameness. Other than protecting the area and antibiotics, what is the most important thing to do to encourage resolution of this infection?
 - A. Drainage of the abscess.

S. HIH 540-2

815/3

- 23 Q. What is the major event of the third stage of labor?
 - A. Expulsion of the placenta

S. Kainer Plate 73

510/4

- Q. You are evaluating a horse for purchase and it appears sound on examination and gaiting. What would you look for when examining the hooves to determine if the horse has experienced chronic laminitis?
 - A. Irregular rings on the hoof wall (also a wide white line at the toe and a flat sole could be considered acceptable)
 - S. HIH 540-5

- Q. What is the difference between bradycardia and tachycardia?
 - A. Bradycardia is an unusually slow heart rate; tachycardia is an unusually rapid heart rate
 - S. DET pg 37, 262

840/3

Toss Up – Bonus Attached

- Q. Give two names for the artificial gait of the Tennessee Walking Horse that is characterized by a smooth, fluid motion; the hind foot overstrides the print of the front foot, and there is a nodding of the head.
 - A. Running walk and plantation gait
 - S. Evans pg 178

640/4

Bonus

- Q. (Bonus Question) Name three things baling hay too wet moisture content greater than 20% will cause?
 - A. Cause hay to become moldy (brown/black in color)
 Will generate heat that will cause a loss of vitamin content
 Will decrease protein digestibility
 May lead to spontaneous combustion
 - S. YLM 337-2, Lewis pg 115, HIH 750-4 700/4

Resume Open Questions

- Q. What structure on the ventral surface of the hoof is used as the guideline for shaping the hoof and nail placement?
 - A. White line
 - S. HIH 525-1

- Q. What breed of horse is described as having a primary color of chestnut, but includes a wide range of other colors, having a refined head with small ears, a long neck with considerable arch, a high withers, used today primarily as a show horse and can be 3 or 5 gaited and shown in fine harness?
 - A. American Saddlebred Horse
 - S. HIH 156-1, Evans pgs 38-9

200/3

- 30. Q. What is the minimum width for a stall door?
 - A. 4 feet
 - S. YLM 207-2, HIH 320-6

920/3

- Q. What class of horse, as defined for feeding management, might require increased quantities in the diet or unrestricted access to free choice salt?
 - A. Working horses (lose salt through sweating)
 - S. HIH 710-7

750/4

Last Question of the Round

- 32. Q. Name one type of insurance that covers breeding mare infertility.
 - A. Barrenness Insurance, Prospective Foal Insurance and Live Foal Insurance
 - S. HIH 1340-3

One-On-One

1. C1 Q. What is the name of the procedure used to "temporarily" anesthetize a nerve to localize the site of pain for lameness diagnosis? A nerve block (not nerving) A. S. Kainer plate 22, Lewis pg 397 420/3 2. C2 What hormone would be influencing the cervix when it is Q. flaccid, very pink and vascular, and produces a thin watery mucous? Estrogen Α. S. HIH 910-3 480/3 3. C3 Q. What arteries are the first to branch off of the aorta and supply blood to the heart muscle? Coronary arteries A. S. Kainer plate 58 440/3 4. C4 In "general terms" what does the horse's adrenal gland Q. produce? Hormones A. DET pg 4, Evans pg 127 S. 490/3

5. C1	Q.	Which draft breed has a gestation ler than any other draft mare?	igth 15 to 20 days longer
	A.	Belgian	
	S.	Lewis 242	0200/4
6. C2	Q.	Considering the stomach, small intess where do feeds being processed by the period of time?	_
	A.	Stomach (15 minutes)	
	S.	YLM 203-1	430/4
7. C3	Q.	Alkaloid poisoning primarily blocks body tissue?	nerve impulses to what
	Α.	Muscles	
	S.	Lewis pg 340	770/4
8. C4	Q.	Ossification of the cartilages of the cartilages of the what?	listal phalanx is called
	A.	Side bone	
	S.	Kainer Plate 12	810/3

9. C1	Q.	Bacteria in the horse's digestive converting cellulose into what d	•
	A.	VFAs – volatile fatty acids	
	S.	Lewis pg 17	720/3
10. C2	Q.	What is the vector for the equino Borrelia buurgdorferi, also know	•
	A.	Ticks	
	S.	HIH 655-1	840/3
11. C3	Q.	What fat soluble vitamin is consand development of a strong hoo	
	A.	Vitamin A	
	S.	HIH 505-2	740/3
12. C4	Q.	What are added to horseshoes to nails and stabilize the shoe on the	-
	A.	Clips	
	S.	YLM 231-2, HIH 515-2	900/3

End One-On-One

Begin Open Questions

- 13. Q. When dividing horses into classes for nutritional management what nutritional class would wearlings and yearlings be placed in?
 - A. Growing
 - S. YLM 103-1

700/3

- 14. Q. Identify one plant that causes acute alkaloid poisoning.
 - A. Larkspur (poison weed); monkshood (Aconite); poison, European or spotted hemlock; water hemlock; yew; death camas
 - S. Lewis pg 334

770/4

Toss Up - Bonus Attached

- 15. Q. (Two Part) When handling a horse that experiences a fearful or objectionable situation and you remove the option of flight, what two possible choices does the horse have?
 - A. Fight or submit
 - S. Lewis pg 376

910/4

Bonus Question

- 16. Q. (Bonus question) Identify where each of the three serous membranes called the pleura, peritoneum and pericardium found in the horse?
 - A. Thoracic cavity pleura
 Abdominal cavity (and the pelvic cavity) peritoneum
 Surrounding the heart pericardial
 - S. Kainer plate 56, DET pg 209, 215

Resume Open Questions

17.	Q.	What is the specific name of the type of western chaps that
		extend slightly beyond the knee, but do not cover the rider's
		shins?

- A. Chinks (do not accept half chaps they cover the ankle and shin chinks go from the thigh to the knee)
- S. DET pg 55

1060/3

- 18. Q. Which spavin would be defined as an inflammation of the intertarsal and tarsometatarsal joints resulting in excess bone formation causing lameness that often stops if the joints fuse?
 - A. Bone Spavin (Jack Spavin)
 - S. Evans pg 165, Kainer plate 32

620/4

- 19. Q. There are numerous disadvantages to using straw as a bedding, but what is the major safety issue with straw?
 - A. It is highly combustible fire hazard
 - S. HIH 30-1

920/3

Toss Up – Bonus Attached

- 20. Q. What two minerals are necessary in the horse's diet for the regulation of all body fluids, maintenance of acid-base balance, and nerve impulse conduction?
 - A. Sodium and chloride
 - S. Lewis pg 25

Bonus

- 21. Q. (Bonus question) Name four things that can be done to help a horse with navicular disease.
 - A. Rest/restricted activity
 Bar shoe (egg bar) to support the rear of the hoof
 Rocker toe
 Raise the heel with wedges
 Improve blood circulation medication Isoxsuprine
 Nerving low not high
 Pain control
- S. HIH 540-3

815/3

Resume Open Questions

- 22. Q. In training, giving a reward when the horse performs the desired act or behavior is termed what?
 - A. Positive reinforcement
 - S. DET pg 218

900/3

- 23. Q. Visual inspection is the most common method of evaluating forage. What is the most accurate method to assess the nutrient composition of forage?
 - A. Chemical analysis
 - S. HIH 750-5

700/3

- 24. Q. Slow eating, quidding, swelling of the face, draining tracts and nasal discharge can be indications of what dental problem?
 - A. Tooth root infection (accept just infection)
 - S. HIH 405-3

430-4

25.	Q.	What is the single most i	mportant factor in storing grain?
	A.	Moisture or safe storage	(accept either)
	S.	Lewis pg 77	700/3
Toss	Up –	Bonus Attached	
26.	Q.	(Two Part) Name two of affected by cardiac glyco	the body's organ systems that would be side poisoning?
	A.	Cardiac, digestive, respin	ratory, digestive and nervous
	S.	Lewis pg 339	770/3
Bon	us		
27.	Q.		litative gene action what are the three hat effect the expression of the trait?
	A.	Dominance, co-dominan	ce and partial dominance
	S.	HIH 1020-2	550/4
Resi	ume O	pen Questions	
28.	Q.	Name the type of shoe the horse that is confined to	nat is used to elevate the heels of a stall rest?

900/4

Patten Shoe

YLM 231-3

A.

S.

29. O. In describing a horse what would a hat rack be? A. An emaciated horse – very thin S. DET pg 130 700/3 30. Q. In natural conditions, horses demonstrate few vices. What is it about stalls and stabling that promotes the development of these vices? Boredom Α. S. HIH 320-1 930/3 31. Q. What does the term teratogenic describe in regard to plant poisoning? A. Compounds that cross the placenta and cause physical defects in the fetus S. 770/4 Lewis pg 332 **Last Question of the Round** 32. Identify this bridle from the following description – double reined O. with the snaffle and curb bit separated, commonly used for 3 and 5 gaited horses. Weymouth bridle (Weymouth Set, Weymouth Curb), full A. bridle or double bridle S. HIH 1100-10, IDET 290. 1000/4

One-On-One

1. C1	Q.	What plant provides the highest qualit of lysine and is used as a common pro-	
	A.	Soybeans	
	S.	Lewis pg 83	760/4
2. C2	Q.	If a pair of alleles are not identical, whose considered with respect to those ge	
	A.	Heterozygous	
	S.	YLM 335-1, HIH 1020-2	550/4
3. C3	Q.	As the cups on the horse's incisors dis form first as narrow elongated yellow	
	A.	Dental star	
	S.	YLM 205-2, Kainer Plate 48	430/4
4. C4	Q.	What is the proper name (genus and s internal parasite of the horse where la damage the liver and lungs, the adults and they primarily affect foals?	rval migration can
	Α.	Parascaris Equorum (not Strongyloid not affect the liver and are not large)	les or Threadworms – do
	S.	HIH 430-1	835/4

5. C1	Q.	What is the most toxic part of the water hemlock?
	A.	Roots
	S.	Lewis pg 343 770/4
6. C2	Q.	What are the structural components of carbohydrates?
	A.	Simple sugars
	S.	Lewis pg 16 730/4
7. C3	Q.	What is the proper term for the condition found when lymph fluid accumulates in the tissues of the leg, commonly called "stocking up"?
	A .	Edema or leg edema
	S.	Kainer plate 64, Evans pg 113, IDET 89. 840/4
8. C4	Q.	What metal alloy can be used for horseshoes that maintains the light weight of aluminum, but has the durability of steel
	A.	Titanium
	S.	HIH 515-4 900/4

9. C1	Q.	What is the primary event that sig second stage of labor?	nals the mare has entered the
	A.	Mare's water breaks – allantoic fl	uid
	S.	Kainer Plate 73	510/3
10. C2	Q.	What term would be defined by the fetus before it's is capable of living	
	A.	Abortion	
	S.	DET pg 1	500/3
11. C3	Q.	Name one of the three main categ sudden death?	ories of plant toxins that cause
	A.	Cyanogenic glycoside (cyanide) Cardiac glycosides Alkaloids	
	S.	Lewis pg 334	770/4
12. C4	Q.	What classification of shoeing we application of a horseshoe to suppof the hoof to help prevent pain?	
	A.	Therapeutic shoeing	
	S.	YLM 231-1	900/3

End One-On-One

Begin Open Questions

13.	Q.	What is the reason for putting a 6 inch wide board at the top of a
		wire fence?

- A. To allow the horse to see the fence better and to prevent damage to the horse and the fence.
- S. HIH 350-3

920/3

- 14. Q. What driving vehicle is being described two-wheeled, low, closed body, drawn by a single horse or pony, and its name contains the name of another four legged friend of man?
 - A. Dogcart
 - S. DET pg 83

1050/3

Toss Up - Bonus Attached

- 15. Q. (Two Part) The meninges are three membranes covering what two structures?
 - A. Brain and spinal cord
 - S. Kainer Plate 81

420-3

Bonus Question

- 16. Q. (Bonus Question) Name the four major parts of the equine uterus.
 - A. Cervix, body, and two horns
 - S. Kainer Plate 70

Resume Open Questions

- 17. Q. Drainage of a potential site should allow water to drain away from buildings, rings, and training areas. To prevent muddy conditions or erosion, what should the slope of the land be?
 - A. Two to six percent

S. HIH 3201-2

920/4

- 18. Q. In equine competition, what is a kur?
 - A. A musical freestyle ride in dressage
 - S. DET pg 162

1010/3

- 19. Q. What term would be used to describe a horse that is cantering on different leads front and rear?
 - A. Disunited (also accept cross firing or cross canter)
 - S. DET pg 82

640/4

Toss Up – Bonus Attached

- 20. Q. (Two part) Forages are important for horses for the nutrients they provide. Name a physiological function and a psychological function forages provide to the horse.
 - A. Physiological Increase muscle tone and activity of the gastrointestinal tract.
 Psychological Decrease stable vices
 - S. Lewis pg 63

Bonus

- 21. Q. (Bonus Question) Name or describe three sites where you can take the pulse of your horse.
 - A. Facial artery ventral border of the mandible shallow groove on the lower border of the jaw behind the last cheek tooth Transverse facial artery behind and below the eye, just below the zygomatic arch Lateral dorsal metatarsal artery hind limb, outside, in groove between the cannon bone and splint bone Digital arteries laterally and medially along deep flexor tendon at the pastern back of the fetlock joint Median artery Inside the elbow of the foreleg (Do not accept tail artery can find no references-used for bovine only)
 - S. Kainer plate 62

440/4

Resume Open Questions

- 22. Q. What is the racing term used for administering an illegal drug to a horse to increase or decrease its speed or performance?
 - A. Doping
 - S. DET pg 84

1040/3

- 23. Q. As the digestibility of a feed increases, water consumption is decreased. Why?
 - A. The amount of water excreted in feces is decreased.
 - S. Lewis pg 4

700/4

- 24. Q. (Two Part) Name two areas to which a non-leverage bit like the snaffle applies pressure.
 - A. Corners of the mouth, tongue, and bars. (Also accept roof of the mouth)
- S. HIH 1100-8

- 25. Q. Ingestion of wild onions, red maple leaves, or moldy sweet clover can result in what problem?
 - A. Anemia

S. Lewis pg 330

770/4

Toss Up - Bonus Attached

- 26. Q. (Two Part) What are the two most effective stimuli that can be used in horse training?
 - A. Hearing voice commands
 Touch pressure bit, legs, seat etc
 - S. HIH 1240-2

910/4

Bonus

- 27. Q. (Bonus question) What are three major problems with wooden floors?
 - A. Slippery when wet

Prone to attracting rodents by creating an environment for urine to accumulate and feed to fall through the cracks.

Splinters

Difficult to disinfect

Need to be periodically replaced

S. HIH 320–3

920/3

Resume Open Questions

- 28. Q. Of the six basic classes of nutrients water, protein, carbohydrates, fat, mineral and vitamins which one of these has only one purpose being required for body metabolism?
 - A. Vitamins

S. Lewis pg 3

- 29. Q. Harsh shampoos can create a dry skin. What else does a harsh shampoo make the skin more susceptible to?
 - A. More susceptible to microbial (bacterial and fungal) and parasite problems. (Accept either as a correct answer)
 - S. Lewis pg 180

860/4

- 30. Q. Why is the phenotype of the horse not always representative of the horse's genotype?
 - A. The effects of recessive genes may not be expressed in the phenotype (Also accept environmental factors)
 - S. HIH 1060-2

550/4

- 31. Q. What is the characteristic feature of "polo" shoes that gives them better traction and enables the foot to roll over faster?
 - A. The inside rim of the web is raised higher than the outside edge
 - S. Evans pg 737

900/4

Last Question of the Round

- 32. Q. Why is properly composted manure and bedding safe to spread on pastures without worry about the spread of parasites, pathogenic bacteria, or weed seeds?
 - A. Composted manure will reach a temperature that will destroy these problems.
 - S. HIH 360-3

One-On-One

What happens to the majority of the epithelial cells that make up the hoof wall?	
They are keratinized	
Evans pg 692	415/4
The head of each of the horse's ribs structure?	articulates with what
Vertebrae (Cervical 1st only and thou	racic) or spine
Kainer plate 8	410/4
3. C3 Q. What is the name of the muscular structure that release of ingesta from the stomach into the du	
Pylorus or pyloric sphincter muscle	
Kainer plate 51	430/4
Are red maple leaves more toxic wh dried?	nen fresh or when wilted or
Wilted or dried (toxic up to 30 days	once dried)
Lewis pg 331	770/4
	up the hoof wall? They are keratinized Evans pg 692 The head of each of the horse's ribs structure? Vertebrae (Cervical 1 st only and thoo Kainer plate 8 What is the name of the muscular strelease of ingesta from the stomach Pylorus or pyloric sphincter muscle Kainer plate 51 Are red maple leaves more toxic who dried? Wilted or dried (toxic up to 30 days)

5. C1	Q.	Name the movement of the horse where the horse trots in a very cadenced, floating manner with a marked period of suspension?	
	A.	Passage	
	S.	DET pg 205	640/4
6. C2	Q.	_	treat limb deviations of a foal needs to rent occurs to the foal's orthopedic
	A.	Before the epiphyseal	plates (growth plates) close
	S.	HIH 525-3	810/4
7. C3	Q.		roblems from your horse, all of your ures are directed to accomplishing what
	A.	Interruption of the para	asite life cycle
	S.	HIH 430-4	835/4
8. C4	Q	sport and is ridden over	United States' most famous event in this or the old Pony Express route from Lake Fornia. What type of competition is it?
	A.	Endurance ride	
	S.	DET pg 266	1040/4

9. C1	Q.	Radiographs and nerve blocks are commonly used to confirm a diagnosis of navicular disease. What other simpler diagnostic instrument or tool can your veterinarian use to best make this diagnosis?		
	A.	Hoof testers		
	S.	YLM 334-2L	815/3	
10. C2	Q.	When are oak trees most toxic?		
	A.	In the spring when the leaf and flowe	r buds are just opening	
	S.	Lewis pg 304	770/4	
11. C3	Q. A.	A heart bar shoe is used to transfer we assist the wall in healing. What part of transferred to? The frog	_	
	S.	YLM 231-3	900/3	
		ž		
12. C4	Q.	What plant contains cicutoxin, one of compounds known?	the most poisonous	
	A.	Water hemlock		
	S.	Lewis pg 343	770/4	

End One-On-One

Begin Open Questions

- 13. Q. What functions to transport nutrients, waste products and regulatory substances to the brain and the spinal cord?
 - A. CSF cerebrospinal fluid
 - S. Kainer Plate 81

420-3

- 14. Q. The biggest mistake in most barns is that they are built for human comfort and not equine health. What is the primary fault found in these barns?
 - A. Poor ventilation
 - S. Evans pg 773

920/3

Toss Up – Bonus Attached

- 15. Q. (Two Part) What is the term used to describe a horse where all of the permanent incisors are in wear and what is the minimum age of the horse?
 - A. Full mouth, 5 years old
 - S. YLM 205-2

430/4

Bonus Question

- 16. Q. (Bonus Question) List four things that you might observe in your pregnant mare that would indicate she is starting the first stage of labor.
 - A. Seeks isolation from other horses

Stops eating

Becomes restless - pacing, lies down and gets up repeatedly

Tail swishing

Sweating

Frequent urination

Wax on the end of the teats may fall off and milk starts to drip

S. Lewis pg 245, Evans pg 417

Resume Open Questions

17.	Q.	The Kimberwicke bit is considered a leverage bit. How is it different from a typical leverage bit like a curb bit?	
	A.	The Kimberwicke does not have shan the rings for attachment of a curb cha	-
	S.	IDET 161, HIH 1100-9	1000/4
18.	Q.	What is the proper term for the fluid cells after they coagulate?	that separates from red blood
	A.	Serum	
	S.	Lewis pg 403	440/4
19.	Q.	What term is used to describe a horse with good speed?	e that can both pace and trot
	A.	Double-gaited	
	S.	DET pg 84	1040/4
Toss	Up –	Bonus Attached	
20.	Q.	(Two part) What are the two primary	purposes of the epididymis?
	A.	Storage and maturation of the sperm	
	S.	HIH 920-4, IDET 97	480/3

Bonus

- 21. Q. (Bonus question) List four things a farrier should observe before removing and replacing the shoes on your horse.
 - A. 1. Observe your horse in motion evaluate for lameness or interference
 - 2. Observe the conformation of your horse and note any conformation problems
 - 3. Observe the foot axis of each foot to determine geometric balance
 - 4. Note any deformities or abnormalities of the foot.
 - 5. Clean the hoof and note the position of the wear on the shoes
 - 6. Note the type or style of the shoe on your horse and whether it is appropriate
 - 7. Talk with the owner about the horse's use and any gait problems.
 - 8. Discuss with the owner shoe preference and cost.
 - S. YLM 321-1

900/4

Resume Open Questions

- 22. Q. When fencing horses, what is the most effective way to use an electric fence?
 - A. In conjunction with another fence using the electric fence at the top of the fence to keep the horses off of the other fence.
 - S. Evans pg 766

920/4

- 23. Q. Identify one plant that can cause cardiac glycoside poisoning.
 - A. Milkweed; foxglove; oleander; yellow oleander; be-still or lucky nut tree; lily of the valley; dogbane or Indian hemp
 - S. Lewis pg 337 339

- 24. Q. Shaping or dressing the hoof is done to remove any outward distortion of the hoof wall before applying the shoe. What is the maximum amount of hoof wall that can be removed without excessively thinning and weakening the wall?
 - A. One half of the thickness of the wall.
 - S. HIH 535-4

900/4

- 25. Q. Why would you choose to use a dropped noseband for your horse?
 - A. To keep the mouth closed
 - S. DET pg 86

1000/3

Toss Up – Bonus Attached

- 26. Q. (Two Part) What are the two primary hormones the horse's adrenal gland releases?
 - A. Epinephrine (adrenalin), cortisol (corticoids or corticosteroids)
 - S. Evans pg 127

490/4

Bonus

- 27. Q. (Bonus Question) In the cascade from Gross Energy to Net Energy, energy is lost through a variety of processes. Name three of the four sources of loss.
 - A. Feces, urine, gases, and metabolization of food (process of digestion and absorption).
 - S. Lewis pg 9

Resume Open Questions

28.	Q.	What is the proper name for the substance produced by the skin
		which coats each hair and causes it to lie flat and gives them a shine?

A Sebum

S. Lewis pg 179

460/3

29. Q. Fresh forage that is cut, chopped and fed that same day is called what?

A. Green chop or soilage (Do not accept haylage)

S. Lewis pg 66

700/3

30. Q. It is rare that a horse is poisoned by a single mouthful of a toxic plant. Name one of the two plants that are considered to be the exception to this rule.

A. Water hemlock or yew

S. Lewis pg 301

770/4

31. Q. What is the minimum height of perimeter pasture fencing?

A. 5 feet

S. HIH 350-1, Evans pg 760

920/3

Last Question of the Round

32. Q. Using the proper term, what structure is being described? This structure is composed of cardiac muscle, it is the middle and thickest layer of the heart wall and is responsible for contraction of the heart.

A. Myocardium or myocardial muscle

S. DET pg. 185

One-On-One

1. C1	Q.	The frontal bone, zygomatic bone, and lacrimal bone form what anatomic structure?	
	A.	Orbit	
	S.	Kainer Plate 41, DET pg 247	410/4
2. C2	Q.	When feeding a pelleted or extruded fingredients, why would it be important not by volume?	
	A.	The extruded food is expanded during air being trapped in the feed making i volume to get the same nutrient value	t necessary to feed a larger
	S.	Evans pg 280, Lewis pg 92	700/4
3. C3	Q.	Q. The equine liver will function at near optimal levels until approximately what percent of it is destroyed?	
	A.	80 % (accept 70 to 80 %)	
	S.	Lewis pg 308	800/4
4. C4	Q.	What does a skin pliability test check	for?
	A.	Dehydration	
	S.	YLM 115-1	870/3

5. C1	Q.	Where would you look on your horse to find the perineum?	
	A.	Below the tail – area between the anus and the scrotum or vulva	
	S.	Kainer Plate 53	400/4
6. C2	Q.	Grazing alsike clover can cause photosensitivity and hepatitis when consumed during what weather conditions?	
	A.	During wet or humid weather	
	S.	Lewis pg 314	770/4
7. C3	Q.	The term "gonitis" would describe the inflammation and lameness of which joint of the horse?	
	A.	Stifle	
	S.	Evans pg 164	810/4
8. C4	Q.	Ideally, how much wider should the vice compared to the width of the hoof was	
	A.	Twice the thickness.	
	S.	HIH 535-5	900/4

9. C1	Q.		orally to horses via stomach tube and ivate ingested toxins to prevent their al tract?	
	A.	Activated charcoal		
	S.	DET pg 3	770/4	
10. C2	Q.	What is the proper term for membranes of the mouth	for an inflammation of the mucous?	
	A.	Stomatitis		
	S.	DET pg 257	830/3	
11. C3	Q.	_	nailed on keg shoe, what is the first remove the shoe after cleaning and?	
	A.	Open or cut the clinches		
	S.	HIH 535-2	900/3	
12. C4	Q.		cribe the process of desensitization of the routine handling and examination	
	A.	Imprint training		
	S.	HIH 525-2	900/4	

End One-On-One

Begin Open Questions

- 13. Q. Where would you find a "stabilizer" or "roper's" bar?
 - A. On a bit, connecting the shanks where the rein loops are attached.
 - S. DET pg 67

1000/4

- 14. Q. What product do the apocrine tubular glands located in the dermis layer of the skin produce?
 - A. Sweat
 - S. Kainer plate 5

460/3

Toss Up - Bonus Attached

- 15. Q. (Two Part) If the horse has a fracture of the olecranon, what bone and joint would be involved?
 - A. Ulna, elbow
 - S. Kainer plate 10

410/4

Bonus Question

- 16. Q. (Bonus question) Name four advantages of barn/stall housing for horses compared to run-in shelters and pasture.
 - A. Able to monitor diet

 Able to control exercise

 Horses kept cleaner

Horses readily available for owners use

Closer observation
Easier to medicate

S. Evans pg 773

920/3

Safer from horse-horse injury

Resume Open Questions

- 17. Q. You are using a hoof tester as part of a lameness evaluation of the horse's right forelimb. You consistently notice sensitivity with pressure at a specific location. What else would you do with the hoof tester to confirm this as a possible basis for your lameness diagnosis?
 - A. Compare the response to the left forelimb hoof.

S. HIH 530-3

815/5

- 18. Q. What structure of the hoof am I? I am very elastic and have few blood vessels or nerve endings. I am located between the lateral cartilages and absorb concussive forces from the pastern coffin bones and frog. I am wedge shaped and composed of fibrous tissue and fat.
 - A. Digital cushion

S. HIH 505-4

415/4

- 19. Q. What is the stage of the mare's estrous cycle that follows her estrus or heat and lasts approximately 14-15 days until she is either pregnant or reverts back to anestrus?
 - A. Diestrus
 - S. DET pg 81, YLM 326-2

480/3

Toss Up - Bonus Attached

- 20. Q. (Two Part) When horses lick at the areas where bot eggs are attached, what two necessary factors is the horse providing that allows the bot eggs to hatch?
 - A. Friction, moisture and warmth
 - S. HIH 430-3, Evans pg 635

Bonus

- 21. Q. (Bonus question) If you were building a run-in shelter on your farm, name five factors you would include in its design, location, and/or construction.
 - A. Face away from prevailing winds

Minimum of 20 feet deep

In the northern half of the US face to the south to take advantage of the winter sun

Opening at least 10 feet high

Wide enough for all horses to exit simultaneously

Padded center posts

Minimum 75 - 120 sq ft per horse

No sharp edges

Corners designed so horses do not get trapped

Roof slopes away from opening

Located on high ground or graded so that there is good drainage

Do not use metal roof – scares horses

S. Evans pgs 772-3, Lewis pg 181

920/3

Resume Open Questions

- 22. Q. One of the advantages of open front shelters or run-in sheds is their better ventilation. How would this benefit your horse?
 - A. Fewer respiratory disease problems
 - S. Evans pg 772

920/3

- 23. Q. If you were to take the pulse of a normal healthy, physically fit horse that has just been galloping for 5 minutes would you expect the heart rate to be 100, 150 or 200 beats per minute?
 - A. 200
 - S. Lewis pg 206

- 24. Q. Name one plant that can cause a Vitamin B1 (Thiamine) deficiency?
 - A. Horsetail (snake grass, marestail, horserush) or bracken fern
 - S. Lewis pg. 319-320

770/4

- 25. Q. In designing an equine facility, one of the primary considerations is the safety of the horses and the handlers. Design is influenced significantly by one **primary** behavioral response that the horse exhibits as a defensive measure. What is that behavior?
 - A. Flight when fearful
 - S. HIH 320-1

920/5

Toss Up – Bonus Attached

- 26. Q. Even though a complete feed contains all of the nutrients needed by the horse, what two dietary nutrients should your horse always have available?
 - A. Water and salt
 - S. Lewis pg 385

700/4

Bonus

- 27. Q. (Bonus Question) Name four things horses shown at Halter Class are judged on.
 - A. Type (breed type)

Conformation

Quality

Substance (muscling or condition)

Soundness (way of going)

Color

Sex character

S. DET pg 129

1010/4

Resume Open Questions

28.	Q.	What is the proper name of the structure of the uterus which is being described? It is composed of two sheets of tissue – one longitudinal and one circular, it is the middle layer, and it is responsible for powerful contractions of the uterus at birth of the foal.	
	A .	Myometrium	
	S.	HIH 910-3	480/4
29.	Q.	What is the minimum distance a a well used for drinking water.	manure pile should be located from
	A.	A minimum of 100 feet	
	S.	HIH 360-2	920/4
30.	Q.	Which premolars are present as	permanent teeth only?
	A.	Wolf teeth	
	S.	HIH 405-1	430/4
31.	Q.	FSH (Follicle Stimulating Horm spermatogenesis in the stallion bettestes?	one) exerts it effect in stimulating by acting on what cells in the
	A.	Sertoli cells	
	S.	YLM 327-1	520/5
Last	Ques	tion of the Round	
32.	Q.	What plant causes the disease "t sickness" in people?	rembles" in horses and "milk
	A.	White snakeroot	
	S.	Lewis pg 320	770/4

One-On-One

1. C1	Q.	The leaves of hay contain a greater content of non-structural carbohydrates and proteins than the stems. How does this affect their nutritional value?	
	A.	The leaves are more digestible	
	S.	YLM 337-2L 700/4	
2. C2	Q.	Osteoblasts form a protein matrix that ultimately tissue?	forms what
	A.	Bone	
	S.	Evans pg 227 410/4	
3. C3	Q.	What is the main clinical symptom of horses that alfalfa pasture or hay infected with the fungus <u>Reguminicola</u> ?	
	A.	Excessive salivation or slobbers	
	S.	Lewis pg 302 770/5	
4. C4	Q.	Retention of deciduous teeth (i.e. caps) is most in which teeth?	commonly seen
	A.	Premolars	
	S.	HIH 405-2 430-4	

5. C1	Q.	Name one of the two poisons that are found in Johnson and Sudan grasses?	
	Α.	Cyanide and nitrates	
	S.	Lewis pg 321	770/4
6. C2	Q.	What is a common term for d has many different specific ar	iarrhea, usually found in foals that nd non-specific causes?
	A.	Scours	
	S.	DET pg 240	830/4
7. C3	Q.	A normal keg shoe has four nail holes on each side. What term is applied to the second and third holes?	
	A.	Quarter nail holes	
	S.	YLM 231-4	900/4
8. C4	Q.	What two items can be added suitable for packing?	l to a stock saddle to make it more
	A.	Breeching and a breast collar	
	S.	HIH 1125-1	1020-3

9. C1	Q.	•	s) do the bot larvae remain attached to the ag before passing out with the manure and ies?
	A.	8 to 10 months	
	S.	HIH 430-3	835/5
10. C2	Q.	In a ranch operation,	what is the purpose of a boundary rider?
	A.	To ride the fences of problems.	the property and repair any
ē.	S.	DET pg 36	1100/4
11. C3	Q.	How many air exchaventilated barn have	nges per hour should an adequately?
	A.	Four to eight	
	S.	YLM 107-2	920/4
12. C4	Q.	•	are traction devices such as toe grabs not rs as commonly as they use to be?
	A.	They produce too m	any injuries
	S.	YLM – 231-2	1040/4

End One-On-One

Begin Open Questions

- 13. Q. When the horse is undergoing strenuous exercise what waste product produced by anaerobic glycolysis causes muscle fatigue?
 - A. Lactic acid
 - S. HIH 850-2

410/5

- 14. Q. A cowboy uses the derisive term "pimple" to describe a piece of English tack. What piece of tack is he referring to?
 - A. The English saddle
 - S. DET pg 212

1000/4

Toss Up - Bonus Attached

- 15. Q. (Two Part) Identify two different places in the horse's skeletal structure you would find an interosseus ligament.
 - A. Attachment of the radius to the ulna and the cannon bones to the splint bones
 - S. Kainer Plate 14, Evans pg 158-9, DET pg 154

400/4

Bonus Question

- 16. Q. (Bonus question) What are three functions progesterone plays in the mare's reproductive cycle?
 - A. 1 Maintains pregnancy by stimulating the uterus
 - 2 Inhibits the release of LH by the pituitary gland
 - 3 Changes the mare's behavior pattern so she will show no signs of estrus
 - S. HIH 910-6

Resume Open Questions

17.	Q.	A pad with stirrups and a cinch used for exercising the horse is called what?			
	A. A pad saddle, bareback pad or exercise saddle				
	S.	DET pg 202 1000/4			
18.	8. Q. Why would you choose to use a rocker-toe horse sho young horse?				
	A.	A rocker-toe shoe eases the breakover of the hoof and to help prevent forging – accept either answer.			
	S.	HIH 525-4 900/5			
		What hormone is produced in the anterior pituitary and is responsible for initiating lactation in the mare?			
	A. '	Prolactin			
	S.	DET pg 221, Evans pg 127 480/4			
Toss Up – Bonus Attached					
20.	Q.	Colic and diarrhea occur from the action of plant toxins on what two body systems in the horse?			
	A.	Nervous, digestive			
	S.	Lewis pg302 770/4			

Bonus

- 21. Q. (Bonus question) In evaluating a site for an equine facility, the natural environment needs to be assessed. Name five natural environmental factors you would have to consider to be successful.
 - A. Topography of the land i.e. slope
 Drainage both above and below ground
 Prevailing winds
 Solar radiation

Precipitation (do not accept cost or any other Vegetation non-environmental factor)

Soil characteristics

S. YLM 333-1, HIH 310-1

920/4

Resume Open Questions

- 22. Q. What fluid excreted by the horse is being described in the following descriptions cloudy, thick and syrupy, and yellow to orange?
 - A. Urine (also accept pus)
 - S. Kainer plate 68

470/3

- 23. Q. What is the name of the fibro-cartilage structure that is located between the articulating surfaces of the stifle joint?
 - A. Menisci or meniscus
 - S. Kainer 13

410/5

- 24. Q. What is the proper term used to describe the use of a file or rasp to remove the sharp edges or points on the horse's cheek teeth?
 - A. Floating the teeth (floated)
 - S. DET pg 110, Kainer plate 48

- 25. Q. What is the name of the slender outgrowth of the epidermis that performs a thermoregulatory function?
 - A. Hair
 - S. DET pg 128

460/3

Toss Up - Bonus Attached

- 26. Q. (Two Part) Vitamins are classified as either water or fat soluble. Which classification of vitamin water or fat soluble taken in excess would be more likely to be detrimental to a horse? Why?
 - A. Fat soluble. Fat soluble vitamins are poorly excreted from the body as compared to water soluble, which are easily excreted. Also accept Fat soluble vitamins are able to be stored, water soluble are not.
 - S. Lewis pg 42

740/5

Bonus

- 27. Q. (Bonus question) What are you doing when you are "wringing off" the nail, what tool are you using, and why do you do it?
 - A. Removing the pointed end of the nail where it exits the hoof Driving hammer (shoeing hammer) the claw of the hammer Making the hoof safe to work with and ready to be clinched
 - S. HIH 530-2, 535-6

900/5

Resume Open Questions

- 28. Q. The percentage of a horse's trait that is due to genetics is measured by what?
 - A. Heritability estimate
 - S. YLM 335-2, HIH 1020-3

29.	Q. The terms "varus" and "valgus" are used to describe deviations what structure of the foal?				
	A.	Deviations of the legs – more specific	cally the knees and hocks.		
	S.	HIH 525-2	810/5		
30.	Q.	Fish are dying in the pond on your farm. Every thing looks normal in the pond. Why might the runoff from your manure pile be causing this?			
	A	Runoff from a manure pile will carry organic matter found in equine feces which will serve as a nutrient source for microorganisms. That process results in decreased oxygen which will not support the fish.			
	S.	HIH360-2	920/5		
31.	1. Q. What is the structural, insoluble polysaccharide in carbohydr				
	A.	Cellulose			
	S.	Lewis pg 16	730/5		
Last Question of the Round					
32.	Q.	In 1985 the horse industry was value state in the United States made the la			
	A.	California			
	S.	Evans pg 11	940/4		

2004 EASTERN NATIONAL 4-H HORSE BOWL

ROUND ONE

ONE - ON - ONE

1. Q. What is the name of the protective boots that fit over the coronet band and bulbs of the heel?

A. Bell boots

S. IDET, p. 26

2. Q. In reference to motion, what is an "acquired gait"?

A. Gait that a horse must be taught.

S. IDET, p. 3

3. Q. What breed of horse would you find in the

"American Studbook"?

A. Thoroughbred

S. IDET, p. 10

4. Q. What do the initials A-H-C stand for?

A. American Horse Council

S. IDET, p. 5

5 (1) Q. Why do horses that "Tie-Up" sometimes have

Dark colored or coffee colored urine?

A: Myoglobin is released from damaged muscle and is incorporated into the urine. (Also accept the breakdown of muscle tissue.)

S: The Horse – pg. 306

6 (2) Q. What is the normal temperature for a healthy

Horse at rest?

A. 99.5 - 101.5 F

S. HIH 440 - 6

7 (3) Q. What disease is characterized by an excessive

breathing noise usually heard during exercise caused by an upper airway obstruction?

A: Laryngeal hemiplegia (Roaring)

S: HIH - 810 - 3

8 (4) Q. How is stringhalt most easily detected?

A: By backing the horse

S: The Horse - pg 164

9 (1) Q. For what disease is a vaccine given to

broodmares at the fifth, seventh and ninth month

of pregnancy?

A. Rhinopneumonitis

S. AYHC 445-3

10 (2) Q. What is the term used to describe a bursitis or swelling at the point of the elbow?

A: Capped Elbow or Shoe Boil

S: The Horse - P: 163

11 (3) Q. What is the purpose of an anthelmintic drug?

A. To deworm horses

S. Evans 646

12 (4) Q. In show jumping, what is meant when a competitor has a "clear round"?
A. Round is completed without jumping or time faults. (Also accept "No Faults".)
S. IDET, p. 58

END ONE – ON – ONE
BEGIN OPEN QUESTIONS
13. Q. What is carpitis?
A: Popped knee or an enlargement of the knee joint as a result of inflammation.
S: Evans - pg: 163

14. Q. What are 4 of the 6 basic vital signs of the horse?

A. Temperature, Pulse, Respiration, Capillary Refill Time, Mucous Membrane Color, Skin Pliability.

S. HIH 425 -1-2

TOSS UP - BONUS ATTACHED

15. Q. Name three colors accepted into the American Buckskin Registry Association.

A. Buckskin, Dun, Red Dun and Grulla

S. IDET, p. 8

BONUS QUESTION

16. Q. In reference to Rodeo – name an event that has a rope barrier

A. Tie down/calf roping; Team roping/heading

& heeling; Steer Wrestling/Bull-dogging

S. IDET, p. 24

RESUME OPEN QUESTIONS

17. Q. What part of the horse's leg is covered by a shipping wrap?

A. Extend from the knee or hock downward including the coronary band

S. AYHCLM B101 - 2L

18. Q. The domestic horse belongs to which species?

A. Equus Caballus

S. Evans, p. 13

19. Q Which region of the horse's vertebral column is the most flexible?

A. The cervical region. (Do not accept "Neck".)

S. Evans, p. 96

TOSS UP - BONUS ATTACHED

20. Q. In which country did the "Asiatic Wild Horse" originate?

A. Mongolia

S. IDET, p. 16

BONUS

21. Q. What perennial weed has five bright yellow petals and five green sepals and may cause diarrhea and colic if ingested by the horse?

A: Buttercups S: LEWIS -P: 306

RESUME OPEN QUESTIONS

22. Q. What structure acts as a safety device in that it will help to prevent a horse from falling out of the trailer when the rear door is open?

A. Butt bar or butt chain

S. AYHCLM 1201 - 1L

23. Q. What type of bone fracture breaks the skin?

A. Compound fracture or open fracture.

S. IDET, p. 63

24. Q. At what age are foals usually weaned?

A. 4 to 6 Months

S. AYHACLM B112-2L

25. Q. Where did the Paso Fino breed originate?

A. Spain

S. HIH 161-1

TOSS UP - BONUS ATTACHED

26. Q. What disease in the horse is caused by an electrolyte imbalance and is characterized by movements of the horse's flanks in synchrony with each heart beat?

A: Thumps (Diaphragmatic Flutter)

S: LEWIS - P: 213

BONUS

27. Q. In a "conformation hunter" class, what percent of the class is judged on performance?

A. 60%

S. IDET, p. 63

29. Q. What type of saddle would most likely be used with a double rigged cinch?

A. Pack Saddle

S. HIH 1125 - 3

30. Q. Name 5 parts of a horseshoe nail.

A: Head, neck, shank, bevel, point, inner face, outer face

S: Evans - P:738 fig 19 - 42

31. Q. What is the name of the specific part of the English or Hunt bridle that holds the bit up in the horse's mouth?

A. Cheek piece. (Also accept "Headstall").

S. IDET, p. 94

Last question in the round

32. Q. What type of trailer hitch attaches to the truck bed?

A. Gooseneck (5th wheel, kingpin hitch)

S. HIH 1155-1

2004 EASTERN NATIONAL 4-H HORSE BOWL ROUND TWO

ONE - ON - ONE

Q. What bone is located between the cannon bone and the short pastern bone?

A. Long pastern.

S. AYHCLM - p. B106-3L & CAHC - p. 12

1. Q. What bacterial disorder involves production of toxins that result in paralysis, rigidity of muscle and often death?

A: Tetanus

S: The Horse - P: 615

2. Q. Name the gaits of the five gaited American Saddlebred.

A. Walk, Trot, Canter, Slow Gait (Stepping Pace) and Rack

S. Horse 40

4. Q. In reference to tack & equipment, what is a "bat"?

A. Short, flat, leather riding whip

S. IDET, p. 25

5 (1) Q. What are 5 different markings for the leg?
A. Pastern, Sock, Half Stocking, Outside Heel,
Stocking, Coronet. (Also accept Ankle,
Distal Spots, Full Stocking, Ermine Spots,
Inside or Outside Heel.)

S. HIH 140-2 (Horse – p. 83)

6 (2) Q. Black Flies are also known as?

A. Buffalo Gnats

S. YLM 100-2 Beginning Leader

7 (3) Q. Give the 'slang' term for thick meaty hocks that lack in quality.

A. Beefy hocks

S. IDET, p. 26

8 (4) Q. A horse with too much angulation in the hocks is said to have what conformational fault?

A: Sickle-hocked S: The Horse - P: 154

9 (1) Q. Which way should the open side of a three sided shelter face?

A. Away from the prevailing winds. (Also accept "Toward the warm winter sun – Lewis 181.)

S. AYHCLM pg B 104 – 1L 10 (2) Q. What is the name for the syringe like device used to give large pills to horses? A. Balling Gun S. IDET, p. 22 11 (3) Q. What is the difference between phenotype and genotype?

A: Genotype = Genetic make-up

P: Phenotype = Outwards or physical

appearance

S: The Horse -P: 454-458

12 (4) Q. What is parrot mouthed?

A. Overshot Jaw

S. HIH 220 - 4

END ONE – ON – ONE BEGIN OPEN QUESTIONS

13. Q. What type of drug increases the excretion of urine after administration?

A. Diuretic

S. Lewis 387

14. Q. What is the definition of a stride?

A. It is the distance between successive imprints of the same foot

S. FCH, p. 405

TOSS UP - BONUS ATTACHED

15. Q. If a horse is said to have "a lot of cow" – what does this mean?

A. Horse has the mental abilities needed to work cattle

S. IDET, p. 71

BONUS QUESTION

16. Q. Blister Beetle poisoning is more common when horses consume what type of hay?

A: Hay produced from flowering forages such as alfalfa or clover that is crimped during the hay making process thus crushing the beetles and trapping them in the baled hay

S: LEWIS - P: 365

RESUME OPEN QUESTIONS

17. Q. To what part of the English bridle's headstall does the throatlatch attach?

A. The crown piece

S. HIH, p. 1100-7

18. Q. What is the term for the wrap taken with a lariat around the horn of a western saddle when roping?

A. Dally

S. IDET, p. 77

19. Q. Give the term for the traveling defect when the toe of the hind foot hits the sole or the shoe of the forefoot on the same side.

A. Forging

S. Evans, p. 179

TOSS UP - BONUS ATTACHED

19. Q. What are three factors that should be considered when selecting the appropriate bedding for your horse's stall? A: Absorbency Dust content Availability Non-toxic Easily Disposable Cost Unpalatable Specific use –such as for a mare foaling S: HIH - P: 330-1

BONUS

21. Q. What are four ways that forage can be harvested? A: Square bales, big round or rectangle bales, hay cubes, chopped hay, pelleted hay and hayliage (also accept Silage).

S: HIH P: 750-4, 750-5

RESUME OPEN QUESTIONS

22. Q. What type of tooth is usually not present in a mare?

A. Canine, Tush or Bridle teeth

S. CAHA 48

23. Q. On an English Saddle, what part is located "between the panels"?

A. Gullet

S. IDET, p. 95

24. Q. When a horse does not eat with a normal healthy appetite, it is said to be what?

A. Off its feed.

S. FCH, p.398

25. Q. What is the term used to describe the canter of the Tennessee Walking Horse?

A. Rocking Chair Canter

S. AYHCLM, p. B 110-1L

TOSS UP - BONUS ATTACHED

26. Q. What is the term when a horse canters on the opposite lead to the direction of travel yet retaining bend to the leading leg?

A. Countercanter (NOT – wrong lead)

S. IDET, p. 70

BONUS

27. Q. Name five Pinto or Paint coat patterns.

A. Tobiano Overo Calico Splashed White Tovero Sabine

S. AYHC 1040-3

RESUME OPEN QUESTIONS

28. Q In feeding management, what is the wicking effect?

A. Uptake of ground moisture into a bale of hay.

S. AYHC 710-5

29. Q. In reference to fox hunting, what is the term for the "bay" of a hound?

A. Cry

S. IDET, p. 74

30. Q. What are the two body types recognized by the American Miniature Horse Association?

A. Arabian and Quarter Horse

S. AYHC 154-1

31. Q. What is the name of the vessel rich membrane $\,$

that covers non-articulating surfaces of bone?

A. Periosteum

S. CAHA Plate 9

LAST QUESTION OF THE ROUND

32. Q. . During cleaning of the foot, name four things

that the foot should be inspected for.

A. Abnormal Growth Loose Shoes (if shod)

Bruises Loose/Missing Nails Diseases (thrush/whiteline)

Puncture Wounds General Condition (cracks, splits, dry, etc.)

Uneven Wear

Lodged debris (dirt, rocks, etc.)

S. Evans, p. 720

2004 EASTERN NATIONAL 4-H HORSE BOWL

ROUND THREE

ONE - ON - ONE

1. Q. If a horse is base-narrow what unsoundness

conditions can occur?

A. Ringbone, sidebone and heel bruising

S. HIH 230 - 2 - 3

2. Q. What is the minimum height of a stall?

A. Eight Feet

S. HIH 320-3

3. Q. On average, how many days is the estrous cycle

of the mare?

A: 21 to 23 days

S: The Horse - P: 323

4. Q. What is the term for a tumor that is not

malignant or recurrent?

A. Benign

S. IDET, p. 27

5 (1) Q. What separates the frog from the bar and sole?

A: Collateral groove or sulcus, commissures.

S: Kainer (CAHA) - P: 24

6 (2) Q. What is the term used to describe an enlargement or inflammation of the flexor tendon or sheath at

the back of the front cannon?

A: Bowed tendon

S: The Horse - P: 160

7 (3) Q. What is the term for a bit with a break or hinge in the center of the mouthpiece?

A. Broken bit or jointed bit.

S. IDET, p. 40

8 (4) Q. What are three reasons why a horse may require

horse shoes?

A: Protect foot from excessive wear

Provide traction

Correct stance or gait

Correct abnormal condition

S: HIH 535-5

9 (1) Q. What are the three basic types of bit

classification?

A: snaffle, curb, hackamore

S: HIH P: 1100-8

10 (2) Q. What grooming tool is used to loosen hair

and dirt in a circular motion?

A. Curry Comb

S. IDET, p. 75

11 (3) Q. What is the definition of Bone Spavin?

A. A boney enlargement that appears on the inside and front of the hock at the point where the base of the hock tapers into the cannon bone.

S. HIH 230 - 4

12 (4) Q. What is the purpose of the Caslick's operation?

A. To seal the vulva, thus preventing air or debris from being sucked into the internal reproductive tract of the mare.

S. HIH, p. 910-1

END ONE - ON - ONE

BEGIN OPEN QUESTIONS

13. Q. "Against the Clock" is a term used in which equestrian discipline where the winner is determined by the fastest time and fewest faults?

A. Show Jumping or open jumping (jumping is not sufficient as an answer).

S. IDET, p.

14. Q. What is the general purpose of a prepurchase exam?

A. To determine the overall soundness and health of a horse prior to the sale transaction.

S. HIH, p. 210-5

TOSS UP - BONUS ATTACHED

15. Q. When a horse has a blanket clip, which body Parts of the horse are left unclipped?

A. Head, neck and legs

S. IDET, p. 30

BONUS QUESTION

16. Q. What are three things horses may do to show signs of aggression?

A: Lunging Biting/Snapping Kicking Striking Rearing Crowding Bared teeth Pinned ears Swishing of tail

S: LEWIS - P: 377

RESUME OPEN QUESTIONS

17. Q. In reference to horse racing – what is the term for the side of the track furthest from the winning post?

A. Backstretch

S. IDET, p. 21

18. Q. What is the maximum height in inches for a registered American Miniature Horse?

A. 34 inches

S. HIH 154 - 1

19. Q. A chestnut horse has a hind leg with white that extends to the pastern. In this white area there are liver colored spots. What is the term for these spots?

A. Distal Spots (Ermine)

S. Evans, p. 83

TOSS UP - BONUS ATTACHED

20. Q. What is "Bastard Strangles"?

A. A form of strangles that affects tissue in the whole body of the horse instead of only the lymph nodes of the head.

S. IDET, p. 25

BONUS

21. Q. What are three factors that may affect the rate of passage of ingesta through the gastrointestinal system in the horse?

A: Processing of feed

Level of intake

Frequency of feeding

Exercise

Individuality

Time of watering

Associative effects (ratio of hay to grain)

S: The Horse -P: 201-203

RESUME OPEN QUESTIONS

22. Q. What is the term used to describe early training when a behavior is being taught for the first time?

A. Acquisition

S: HIH 1240-5

23. Q. What piece of equipment is used by a farrier to determine the angel of the hoof?

A. Hoof Gauge

S. HIH 530 – 2

24. Q. What is the purpose of a dropped noseband?

A. Prevent a horse from opening its mouth

S. IDET, p. 86

25. Q. 2 part question. How many chestnuts does a horse have and where are they located?

A. 4 Chestnuts total

2 on front legs above the knee

2 on back legs below the hock

S. CAHA, p. 4

TOSS UP – BONUS ATTACHED

26. Q. What is the horse racing term for a type of wagering where the person placing the bet must pick the first and second place finished in a race in exact order?

A. Exacta

S. IDET, p. 100

BONUS

27. Q. 2 part question - Medically speaking, what is a "block" and why would one be used?

A. Block – Anesthetic injection used to numb certain parts of the body Used – detect the location of lameness and for standing surgeries.

S. IDET, p. 32

RESUME OPEN QUESTIONS

28. Q. Vitamin D regulates the absorption of what important mineral?

A: Calcium

S: The Horse - P: 221

29. Q. What is the most common treatment for exercise induced pulmonary hemorrhage (EIPH)?

A. Lasix (Furosemide)

S. HIH 810-2

30. Q. What are the three main goals in wound treatment?

A. To control hemorrhage

To turn the contaminated wound into a clean one

To promote rapid wound healing

(Also accepted Protection, Immobilization

and Prevent Infection.)

S. HIH 440-2

31. Q. What is the term for the action when a horse lashes out with a front leg when mad?

A. Striking

S. FCH, p. 382

LAST QUESTIONB IN ROUND

32. Q. When used in regard to horses, this term indicates dominance hierarchy or order of dominance.

A. Pecking Order

S. FCH, p. 399

2004 EASTERN NATIONAL 4-H HORSE BOWL

ROUND FOUR

ONE - ON - ONE

1. Q. Where on a horse shoe would you find caulks?

A. On the ground surface of the shoe, usually at the heels and toes of the shoe.

S. IDET, p. 45

2. Q. What is the meconium?

A. Dark green, brown or black tarry stools formed prior to birth, which normally begin to pass one half hour to six hours afterbirth. (First Manure passed by foal)

S. Lewis 395

3. Q. What is meant when it is said a horse has "clean legs"?

A. There are no blemishes or unsoundnesses on the legs, the horse's legs from the knees/hocks down are all smooth.

S. IDET, p. 58

4. Q What is the vector for Lyme disease?

A. Ticks (Ixodes ticks: deer, bear and the western black legged)

S. Lewis 164

5 (1) Q. Which system in the horse consists of the blood, blood vessels, and heart?

A. Cardiovascular or Circulatory System

S. YLM 325 - 2

6 (2) Q. What type of deviation in movement usually occurs when a horse is toed in?

A: Paddling or Winging Out (do not accept winging – must specify winging out).

S: The Horse - P: 181

7 (3) Q. Name the farrier tool used to open nail holes in ashoe.

A. A Pritchel

S. Evans 739

8 (4) Q. To which breed is the term "blood horse" synonymous with?

A. Thoroughbred

S. IDET, p. 32

9 (1) Q. What two functions does the angle of the shoulder affect most?

A. Length of stride and absorption of shock

S. HIH 220 - 6

10 (2) Q. What are wolf teeth?

A: Small inconstant first upper premolars. They may interfere with the bit and are usually extracted.

S: CAHA - P: Plate 48

11 (3) Q. What is the term used to describe when a mare is in estrus, but doesn't show typical behavioral signs associated with estrus?

A: Silent Heat

S: The Horse -P: 327

12 (4) Q. The Coggins test is used to detect what disease?

A. Equine Infectious Anemia (EIA) (Swamp Fever)

S. Evans 600 - 601

END ONE - ON - ONE

BEGIN OPEN QUESTIONS

13. Q. For what purpose is the drug "acepromazine" used?

A. As a tranquilizer or sedative.

S. IDET, p. 2

14. Q. What is the term for a ration that supplies the proper amounts of all nutrients needed by the animal?

A. Balanced Ration or Complete Feed

S. IDET, p. 22, Lewis p. 385

TOSS UP - BONUS ATTACHED

15. Q. What is the term for a localized thickening of the outer layer of the skin due to repeated friction or pressure?

A. Callus

S. IDET, p. 46

BONUS QUESTION

16. Q. Name 5 corrective or therapeutic horseshoes.

A: Half rimmed, square toe, caulk at first outside hole, heel caulks, lateral toe extensions, shoe with trailer, half shoe, bar across break point, rolled toe, bar shoe, slippered heals, Chadwick spring, heart bar, Egg Bar, Rocker toe, Wedge toe, or Patten shoe S: Evans - P: 749 fig 19 – 48

RESUME OPEN QUESTIONS

17. Q. If a horse has the ability needed to work cattle, the horse is said to possess what?

A. "Cow" or "Cow Sense"

S. IDET, p. 71

18. Q. What characteristic distinguishes the Suffolk breed from the other two British draft breeds?

A. No feathers on the legs (much smaller and are all chestnut)

S. Evans 73

19. Q. What horsemanship competition was originally a trial for cavalry patrol mounts, and was designated as an Olympic sport in 1912?

A. Three day eventing.

S. Evans, p. 154

TOSS UP - BONUS ATTACHED

20. Q. What term is used to describe the two choices horses have in response to fear?

A: Fight or Flight

S: LEWIS P: 376

BONUS

21. Q. What are three major factors predisposing a growing horse to any development orthopedic disease?

A: Rapid growth

Trauma to bone growth plates or articular cartilage

Genetic predisposition

Nutritional imbalances

S: FCH P: 283

RESUME OPEN QUESTIONS

22. Q. By what age does a horse generally have all teeth erupted and thus considered "fullmouth".

A. 5 years

S. YLM 205 - 1

23. Q. In reference to horse racing, what is an "apprentice"?

A. A jockey in training

S. IDET, p. 14

24. Q. What type of equipment is made to fill with gear, food and other equipment while packing?

A. Panniers

S. HIH 1125 - 3

25. Q. What is the primary function of the sole of the foot?

A. Protection.

S. AYHCLM, p. B106-1L

TOSS UP – BONUS ATTACHED

26. Q. What is the term for a wild Australian Horse?

A. Brumby

S. IDET, p. 41

BONUS

27. Q. What are five signs that a horse may be suffering from a dental problem?

A: Losing feed when eating Slobbering Bad odor from the mouth Headtilt Difficulty chewing Bucking Headtossing Tongue Rolling Biting the mouth Tail — wringing Refusing the bit

S. HIH 405 - 1

RESUME OPEN QUESTIONS

28. Q. What is a "caruncle"?

A. Small, fleshy outgrowth

S. IDET, p. 49

29. Q. What is the term for the exterior opening to the reproductive tract of the mare?

A. Vulva

S. HIH p. 910-1

30. Q. Biotin is often fed to improve what specific part of the horse.

A. Hoof

S. Evans 243

31. Q. How long after a wound is sustained are symptoms of tetanus likely to appear?

A. Two days to one month.

S. YLM 114 – 1

LAST QUESTION IN THE ROUND

32. Q. Two part question, describe the ideal shape of a horse's withers and identify why this shape is important.

A. Sharp, prominent and well defined To help hold the saddle in place

S. YLM 223 - 2

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ROUND FIVE

ONE - ON - ONE

1. Q. What is the medical term for any variation from the normal heart beat?

A. Arrhythmia

S. IDET, p. 15

2. Q. What is the name for the metal rod on which the wheels of a carriage turn?

A. Axle

S. IDET, p. 19

3. Q. Rhinopneumonitis affects what system within the horse?

A. Respiratory

S. HIH 445 - 5

4. Q. What type of vision do horses have that allows them to see separate images with each eye?

A: Monocular

S: HIH 1220 - 1

5 (1) Q. What is the most common cause of corns in the horse?

A. A bruise to the sole caused by trauma or shoes that are poorly fitted or left on too long.

S. HIH 540 – 2, IDET, p. 68

6 (2) Q. What is another name for when there is fixation of the patella in horses?

A: Stifled

S: Lewis, p. 404

7 (3) Q. Why is thickness and coarseness in the throatlatch an undesirable characteristic?

A. Air and blood flow may be restricted when the animal is asked to flex at the poll.

S. HIH 220 - 5

8 (4) Q. What is the term for a neck that has a thickened, rounded underline and a concave top line?

A. Ewe neck

S. FCH, p. 389 & Evans, p.145

9 (1) Q. What are three viral diseases carried by mosquitoes that cause inflammation of the brain.

A: Eastern, Western, and Venezuelan Equine Encephalitis, and West Nile Virus.

S: HIH 415-2

10 (2) Q. What severely contagious bacterial disorder results in swollen lymph nodes under the jaw, which often need to be lanced and drained?

A: Strangles

S: HIH 615

11 (3) Q. What is the general term used to describe a horse that is closely coupled and stoutly built?

A. Cobby

S. IDET, p. 60

12 (4) Q. What type of knot should your horse always be tied with?

A. Safety or Quick release knot, or Manger tie

S. AYHCLM B118 – 1L., IDET, p. 175

END ONE - ON - ONE

BEGIN OPEN QUESTIONS

13. Q. What is the "chin groove"?

A. Small indentation between the chin and the branches of the jaw.

S. IDET, p. 55

14. Q. What color is a double dilution of chestnut?

A: Cremello.

S: Evans, p. 460 and 482

TOSS UP - BONUS ATTACHED

15. Q. When a horse is difficult to control because it is carrying its head too high – thus evading the bit, the horse is referred to as being what?

A. "Above the Bit" (Star gazing or Stargazer was not accepted as it is not a behavior that avoids the bit)

S. IDET, p. 1

BONUS QUESTION

16. Q. The elbow joint in the horse is the articulation site of what three bones?

A: Ulna, radius and humerus

S. Evans, p. 689, figure 19-5

RESUME OPEN QUESTIONS

17. Q. What is meant by the phase "Riding Astride"?

A. Riding with one leg on each side of the horse.

S. IDET, p. 17

18. Q. What is the term for the mounted followers of a fox hunt?

A. Field

S. IDET, p. 107

19. Q. When trailering a horse, how often should a horse be offered water?

A. Every 3 to 4 hours

S. AYHCLM A302-2L

TOSS UP - BONUS ATTACHED

20. Q. What is the name for the "drop jump" comprised of a solid earthen ramp or wall?

A. Bank jump

S. IDET, p. 23

BONUS

21. Q. 2 part question – What is meant when it is said that a horse is "double- gaited", and in which breed would you see it.

A. 1. Horse can both trot and pace with good speed

2. Standardbred

S. IDET, p. 84

RESUME OPEN QUESTIONS

22. Q. What two measurements could be used to help determine a horse's speed?

A. Frequency of stride and length of stride.

S. Evans, p. 169

23. Q. What problem characterized by inflammation of a joint is more common in older horses?

A: Arthritis

S: HIH 450-5

24. Q. What type of colic is considered to be the mildest and most common?

A. Spasmodic.

S. AYHC 435-1

25. Q. What is the term used to describe a bacterial or fungal infection of the skin on the heel and back of the pastern?

A: Scratches, grease heel, mud fever

S: Lewis, p. 391

TOSS UP - BONUS ATTACHED

26. Q. What disease is caused by a toxin-producing fungus located in contaminated corn grain consumed by horses?

A: Moldy corn poisoning Leukoencephalomalacia or Blind Staggers

S: Lewis, p. 357

BONUS

27. Q. What are two examples of oral vices in horses?

A: Wood chewing, Cribbing or wind sucking Tail or mane chewing Eating feces or bedding Tongue Iolling S: Lewis, p. 373-374

RESUME OPEN QUESTIONS

28. Q. What is the term for a cowboy whose job is to rescue cattle that have gotten trapped in mud or marshland?

A. Bog Rider

S. IDET, p. 34

29. Q. What is the most important factor that initiates the stimulation of the growth of the horse's winter coat?

A. The shorter length of daylight – not temperature

S. HIH 420 - 1

30. Q. On a sliding plate shoe for a reining horse, which heel is the shortest?

A. Outside heel

S. HIH 515 - 3

31. Q. Name the muscle that lies under the skin and can shake off a fly.

A. Panniculus

S. Evans, p. 120

LAST QUESTION IN THE ROUND

32. Q. What is the primary hormone that is produced and secreted by the Leydig Cells in the Testes? A: Testosterone (Leydig cells also produce some estrogen, but testosterone is the primary one produced.) S: HIH 920-2

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ROUND SIXONE - ON - ONE

1. Q. Name four types of flies that affect horses.

A. Horse flies, stable flies, face flies, horn

flies, deer flies, bot flies, house flies

S. HIH 415-1 and 2

2. Q. Name three kinds of grains fed to horses.

A. Oats, Corn, Barley, Sorghum (milo), Wheat, Rye, Rice, Millet

S. Lewis 73 – 6

3. Q. What is the name for the vice when a horse is touchy and bites or kicks when being cinched up?

A. Cinchy, Girth-Bound, Cinch-Bound, Cold Backed, Girth Sore

- S. IDET, p. 57 Lewis 385
- 4. Q. Define a Roan.
- A. White hairs mingled with basic coat hairs, white hairs present in the first coat and do not increase in frequency with age.
- S. Evans 486
- 5 (1) Q. The perlino color is a double dilution of what color?
- A. Bay
- S. Evans 482
- 6 (2) Q. From what two points do you measure to determine the size of an English Saddle?
- A. From the saddle nail to the midpoint of the cantle
- S. HIH 1100 3
- 7 (3) Q. When viewed from the rear, which part of the horse's hindquarter should be the widest?
- A. Stifle area
- S. Evans 154
- 8 (4) Q. A horse with a short, steep pastern will endure more concussion and may be predisposed to what disease?
- A. Navicular Disease
- S. Evans 162
- 9 (1) Q. Name four (4) breeds of ponies.
- A. American Sport Pony, Hackne, y Americana, POA, Shetland, Trottingbred, Exmoor,
- Walking Pony, Dale, Welsh, Connemara, Chincoteague (no source)
- S. Evans, p. 58-67 S. HIH 169 -1
- 10 (2) Q. What is the term used to describe the disorder characterized by respiratory failure, blindness and death that occurs fromacute selenium toxicity?
- A: Blind staggers
- S: Horse -P: 236
- 11 (3) Q. What does the term bishoping refer to?
- A. Altering the teeth to conceal age
- S. HIH 240 4
- 12 (4) Q. How is EEE transmitted?
- A. Mosquito
- S. HIH 445 4

END ONE - ON - ONE

BEGIN OPEN QUESTIONS

- 13. Q. What is the name for the rubber or leather ring that lies between the horse's cheek and the bit ring or shank to prevent rubbing or pinching of the skin?
- A. Bit guard
- T. IDET, p. 29

14. Q. On the average, how much water will a 1000 lb horse consume in one day?

A: 10-12 gallons per day

S: HIH P: 420-3

TOSS UP - BONUS ATTACHED

15. Q. In reference to carriages, what is the "box"?

A. The seat from which the driving is done.

S. IDET, p. 36

BONUS QUESTION

16. Q. What four (4) parasites require special attention in foals?

A: Intestinal threadworms (Stongyloides westeri), Ascarids or roundworms,

Large strongyles or bloodworms, Small strongyles

S: LEWIS - P: 272

RESUME OPEN QUESTIONS

17. Q. In reference to show jumping, what is an "element"?

A. One jump in a combination

S. IDET, p. 90

18. Q Using the correct ratio, how old is a 20 year old mare in human years?

A. 60 human years of age

S. HIH 450 - 1

19. Q. Hackney Ponies are divided into two classes for show, what are they?

A. Cob-tail (Hackney) and Long-tail (harness)

S. Evans 63

TOSS UP - BONUS ATTACHED

20. Q. Name (2) types of "bars" found on tack.

A. Stirrup bar – Holds stirrup leathers; Bars of the Saddle Tree that lie on either side of horses back

S. IDET, p. 25 & 26

BONUS

21. Q. When scoring the behavioral estrus in mares, Give three examples of behavior that would indicate a score of 4.

A: The mare showed intense interest in the stallion, Turning hindquarters to him, Leaning toward him Exhibits continuous winking and urination, Squats, Tail lifting, Calling

S: YLM -P: 336-2

RESUME OPEN QUESTIONS

22. Q. What four main purposes do a saddle blanket serve?

A. Protect the back, Absorb sweat and moisture, Protect saddle, Helps the saddle fit better

S. HIH 1100 - 5

23. Q. What is the term for the opening in the iris of a horse's eye?

A. Pupil

S. IDET, p. 102

24. Q. What artery is located under the jaw bone at the last cheek tooth and can be used to take a pulse.

A. Facial artery

S. Evans 594 also CAHA

25. Q. Medically speaking, what is a "booster"?

A. Second or subsequent dose of a vaccine

S. IDET, p. 35

TOSS UP - BONUS ATTACHED

26. Q. Toss-Up: What are three possible causes of laminitis?

A: Colic, Endotoxemia due to grain overload, Changes in feeding, Excessive foot concussion Sudden weather changes, Infections or poisons, Drug abuse, Allergies, Excessive grass intake S: HIH P: 540-4

BONUS

27. Q. Name three problems and one benefit of concrete stall floors.

A. Problems – cold, slippery, requires morebedding, poor drainage and associated with increase in leg problems.

Benefit – Easy to clean and sanitize

S. HIH 320 - 3

RESUME OPEN QUESTIONS

28. Q. Foxtail Barley is not toxic yet it is harmful to horses, why?

A. The awns can become imbedded in mucous membranes of the mouth and cause ulcers

S. Lewis 301

29. Q. What is another name for an "auction ring"?

A. Bull Pen or Sale Ring

S. IDET, p. 43

30. Q. What is the term used to indicate that a horse may have a structural problem or deviation which may have only limited affect on the horse's ability to perform?

A. Serviceably Sound

S. HIH 230 - 1

31. Q. Give two distinguishing characteristics of a true white horse?

A. Born white, snow white hair, pink skin and brown, hazel or blue eyes

S. HIH 140-2

LAST QUESTION IN ROUND

32. Q. In which equestrian sport would winning competitors receive "day money"?

A. Rodeo

S. IDET, p. 79

2004 EASTERN NATIONAL 4-H HORSE BOWL

ROUND SEVEN

ONE - ON - ONE

1. Q. What is the name for the condition when there is a loss of transparency of the lens of the eye?

A. Cataracts

S. IDET, p. 51

2. Q. Which classification of Wound would describe a rope burn?

A. Abrasion

S Evans 608

3. Q. List 4 factors that influence a horse's nutritional requirements.

A. Size of animal, environment, age, type of use or activity, and metabolic rate.

S. HIH 120 - 3

4. Q. What are the four stages of the stable fly's life?

A. Egg, Larva, Pup and Adult

S. AHCLM 100 – 1

5 (1) Q. Name four diseases horses should be vaccinated against.

A. Encephalomyelitis (E, W, V), Influenza, Potomac Horse Fever, Rabies, Rhinopneumoniti, Strangles Tetanus, West Nile Virus, Botulism, Salmonella

S. HIH 445 - 3

6 (2) Q. What is the condition where the hoof wall separates at the toe?

A: Seedy Toe

S: The Horse P: 168

7 (3) Q. What is the name of the small wooden rails a horse is worked over to encourage the horse to lengthen its' stride?

A. Cavalletti

S. IDET, p. 52

8 (4) Q. Appaloosa horses have four distinguishing characteristics, name three.

A. Spotted coat pattern, Mottled skin, White sclera around eye, Vertically striped hooves

S. HIH 140-1

9 (1) Q. Name four examples of legumes.

A. Alfalfa, Birdsfoot Trefoil, Clover (red, white and alsike), Lespedeza, Soybeans, Peanuts, Cow peas, Vetch, Pea vine

S. HIH 760 - 2

10 (2) Q. What is the name of the aluminum or wooden devise worn around the neck of a horse to prevent it from chewing at sores, blankets or bandages?

A. Cradle or Neck Cradle

S. IDET, p. 72

11 (3) Q. What is another term for "back at the knees"?

A. Calf - kneed

S. HIH 230 - 6

12 (4) Q. What is the definition of "Respiratory Frequency"?

A. Number of breaths per minute

S. HIH 895 - 1

END ONE - ON - ONE

BEGIN OPEN QUESTIONS

13. Q. The "All American Futurity" is a race for which breed of horse?

A. Quarter Horse

S. IDET, p. 6

14. Q. What is the name of the horse that won the first Kentucky Derby in 1875?

A. Aristides

S. IDET, p. 15

TOSS UP - BONUS ATTACHED

15. Q. What is the term used for a diagnoses based on signs or symptoms?

A. Clinical diagnosis

S. IDET, p. 59

BONUS QUESTION

16. Q. Name 4 of the bones that make up the pelvic girdle in the horse?

A: Ilium, Pubis, Ischium, Sacrum, Caudal Vertebrae (coccygeal vertebrae)

S: CAHA – Plate 28

RESUME OPEN QUESTIONS

17. Q. What is the term for the vocal sound made by a jack?

A. Bray

S. IDET, p. 37

18. Q What is the substance in oak that makes it toxic?

A. Tannic Acid

S. Lewis 303

19. Q. What are four factors to consider when assessing forage quality?

A. Color, Maturity, Species, Leafiness, Presence of pests or foreign matter, Smell, Chemical analysis

S. YLM 337 – 1

TOSS UP - BONUS ATTACHED

20. Q. What is the difference between conditioned and unconditioned stimuli in horses?

A: Conditioned: A stimulus that causes a response after it has been learned a through practice

Unconditioned: A stimulus that naturally causes a response with no practice

S: HIH P: 1240-1

BONUS

21. Q. Name two types of saddles used in packing

A. Decker, Crossbuck (sawbuck), McClellan, Stock

S. HIH 1125 – 1

RESUME OPEN QUESTIONS

22. Q. What is the term for the moment in a horse's stride between landing and takeoff?

A. Breakover

S. IDET, p. 38

23. Q. After performing strenuous exercise, a warm down period is suggested to remove what by-product of metabolism from the muscle?

A: Lactic acid

S: HIH P: 851-9

24. Q. What type of horse shoe is commonly used to transfer weight from the wall of the hoof to the frog of the hoof in horses with laminitis?

A: Heart Bar Shoe

S: HIH P: 515-4

25. Q. What type of insurance covers the insured against bodily injury or property damage as well as provide for legal defense in actions alleging negligence?

A. Liability Insurance

S. HIH 1340 - 5

TOSS UP - BONUS ATTACHED

26. Q. Name the breed of British pony that is solidly built, with good endurance and a calm, agreeable nature originating in the valleys or "dales" of Great Britain.

A. Dale/Dale Pony

S. IDET, p. 77

BONUS

27. Q. Name 6 characteristics of an attractive and well conformed head.

A. Short well set ears, Large nostrils, Sex characteristics, Refined muzzle with a shallow mouth, Large bold eyes, Breediness (Breed type), Short distance from eye to muzzle

S. HIH 220 - 3

RESUME OPEN QUESTIONS

28. Q. What are two benefits to keeping your pastures clipped or mowed?

A: Prevents plant material from becoming too mature Helps maintain a balance of legumes and grasses, Controls weeds, Helps spread manure

S: The Horse P: 274-5

29. Q. When examining the mucus membranes of a healthy horse, what would you expect to see?

A: The membranes should be bright and moist and have a clear pink color.

S: HIH P: 425-2

- 30. Q. What is a "calf horse"?
- A. Horse specially trained for use in roping
- S. IDET, p. 45
- 31. Q. What three parts of the lower leg are affected in a horse with navicular disease?
- A. Navicular bone, navicular bursa and deep flexor tendon
- S. CAHA Plate 27

LAST QUESTION IN THE ROUND

32. Q. What is the term for the type of shoeing job when the farrier uses the same set of shoes for a second time?

A. Re-Set or Re-Shod

S. Evans 742

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ROUND EIGHT

ONE - ON - ONE

- 1. Q. What is the name of the attachment on the port of a curb bit that will spin in the horse's mouth as it moves its' tongue.
- A. Cricket or roller
- S. IDET, p. 72
- 2. Q. What are the two main parts of a clinch cutter?
- A. The blade and the Point.
- S. HIH 530 1
- 3. Q. Destruction of the frog by anaerobic bacteria is more commonly called?
- A. Thrush
- S. YLM 334 1 Leader
- 4. Q. What is the name for the section of the mane at the poll that is trimmed or clipped to allow space for a halter or bridle to rest?
- A. Bridle path
- S. IDET, p. 39
- 5 (1) Q. What piece of equipment is used in conjunction with a curb bit but not with a snaffle bit?
- A. Curb Strap/Chain
- S. HIH, p. 1100-8
- 6 (2) Q. What is the minimum number of times per year, that most veterinarians feel horses should be dewormed?
- A. At least 4
- S. HIH, p. 430 7
- 7 (3) Q. Other than the stirrup leather, what part of the English saddle lies underneath a rider's thigh and upper leg?
- A. Flap
- S. IDET, p. 96

8 (4) Q. What is the western version of a standing martingale called?

A. Tie-down

S. HIH, p. 1100-12

9 (1) Q. What is the difference between breed and sex characteristics?

A. Breed - are unique to a breed and characteristic to a breed such as body type, color pattern, gaits and way of going. Sex - refers to male traits of masculinity and female traits of feminity

S. YLM 223 – 3

10 (2) Q. Which part of the brain controls the coordination of movement?

A. Cerebellum

S. IDET, p. 53

11 (3) Q. What are two signs of lice infestation?

A. scruffy skin, unkempt coat, excessive rubbing and scratching

S. HIH 415-6

12 (4) Q. Starting at the poll name the parts of the horse that comprise the topline?

A. (Poll), Crest (not neck), Withers, Back, Loin or Coupling and Croup.

S. YLM 223 – 2

END ONE - ON - ONE

BEGIN OPEN QUESTIONS

13. Q. How much room should there be allowed on either side of the widest part of a rider's foot in an English stirrup?

A. ¼ inch

S. AYHCLM B108 - 1 L

14. Q. In reference to horse racing, what does the term "also-ran" refer to?

A. Any horse that ran but did not place in the race

S. IDET, p. 7

TOSS UP - BONUS ATTACHED

15. Q. What is the name for a bit used in conjunction with a halter, that has (3) small rings, (2) for the cheek pieces & (1) for a lead rein? It is used to help control horses that rear.

A. Chifney or antirearing bit

S. IDET, p. 13

BONUS QUESTION

16. Q. Name four different areas where the pulse of a horse can be felt using your fingers.

A. Facial artery (under the jaw) Transverse facial artery (just below the eye),Lateral dorsal metatarsal artery (on hindleg on outside of cannon bone), Digital arteries (along the fetlock next to the deep digital flexor tendon), Metacarpal artery just below carpus (frontleg inside), Base of tail, Behind Elbow

T. CAHA, p. 62

RESUME OPEN QUESTIONS

17. Q. Describe the difference in shape between the front and hind hoof.

A: The hind foot is narrower and more pointed.

S: CAHA, Plate 24

18. Q. What two hormones increase just before ovulation in the mare?

A: Estrogen and Luteinizing Hormone

S: The Horse, p. 338

19. Q. Compression of the large venous plexuses within the hoof causes what action?

A. Pumps blood back up the leg

S. HIH 505 - 5

TOSS UP - BONUS ATTACHED

20. Q. What part of the harness helps the horse hold back the vehicle when there is no brake?

A. Breeching (Also accept Pole Strap or Thimbles/Shaft Cup

S. IDET, p. 38

BONUS

21. Q. Name six of the bones in the back leg of the horse from the stifle joint distally?

A. Tibia, Fibula, Tuber Calcis, Tarsal Bones, Metatarsal Bones (Cannon and splints), Phalanges (long pastern, short pastern and coffin bone), the navicular bone (distal sesamoid) and proximal sesamoids.

S. HIH 230 - 2

RESUME OPEN QUESTIONS

22. Q. How is a nutritional calorie defined?

A. The heat required to raise 1 kilogram of water 1 degree C.

S. Lewis, p. 9

23. Q. What is the term for the box from which livestock is released into the arena in rodeo events?

A. Chute

S. IDET, p. 56

24. Q. What structures in the testis serve as the location for spermatogenesis?

A. The Seminiferous Tubules

S. YLM 327 - 2

25. Q. What yellow pigment found in plant material is used as a precursor to form vitamin A in the horse?

A: Carotene, β-carotene

S: The Horse, p. 200, 238-239

TOSS UP - BONUS ATTACHED

26. Q. Name three of the five types of Colic.

A. Spasmodic, Impaction (enteroliths/sand), Incarceration, Displacement, ExcessiveFermentation

S. HIH 435 - 1

BONUS

27. Q. Name three distinct layers of the uterus?

A. Endometrium, Myometrium, Serosa

S. HIH 1380 - 24

RESUME OPEN QUESTIONS

- 28. Q. Which species of pasture grass contains a fungal endophyte that can cause problems in horses, especially pregnant mares?
- A. Tall fescue
- S. HIH, p. 760-3
- 29. Q. Explain what is meant when a rider uses "diagonal aids".
- A. When riding, it refers to the rider's aids; opposite hand and leg; i.e. right hand with left leg.
- S. IDET, p. 80
- 30. Q. What toxic substance can be produced in Johnson grass that may cause death of horses when ingested?
- A. Cyanide
- S. Lewis, p. 321
- 31. Q. To which part of the horse's foot does an "egg bar shoe" provide support?
- A. Heel of the foot
- S. IDET, p. 89

LAST QUESTION IN THE ROUND

- 32. Q. What is a lash cinch?
- A. A half inch rope of soft, twisted nylon 45-50 feet in length used to secure the entire load on a pack saddle S. HIH 1125-5

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ROUND NINE ONE - ON - ONE

- 1. Q. What are tactile hairs?
- A. The course, heavy feeling hairs that protrude from around the nostrils, lips and eyelids (not the eye lashes). Sensory hairs.
- S. CAHA, p. 4
- 2. Q. What is the minimum recommended distance between the top of a horses head in a normal resting position and the top of the trailer?
- A. The trailer should be 10 inches taller than the normal resting position of the head of the horse. (Accepted 10" to 12".)
- S. AYHCLM, p. B101-2L
- 3. Q. What is the term used when a horse rushes into a fence while jumping?
- A. Charging
- S. IDET, p. 54
- 4. Q. What is the term for eyes that are too small and set back into the head?
- A. Pig-eyed
- S. Evans, p. 124
- 5 (1) Q. What is passive transfer of immunity?
- A. When a newborn foal receives antibodies from the mare through the colostrum.
- S. AYHCLM, p. B112-2L

6 (2) Q. What piece on an English bridle is not usually seen on a Western bridle?

A. Noseband or cavesson

S. AYHCLM, p. B108-2L

7 (3) Q. Give the proper term for the raised "bump" in the middle of the mouthpiece of a curb bit.

A. Port

S. AYHCLM, p. B 108-3L

8 (4) Q. What is the general name for a halter class in which coat color and pattern, not conformation is a deciding factor?

A. Color Class

S. IDET, p. 62

9 (1) Q. What is the purpose of the crupper on a pack saddle?

A. To keep the saddle from sliding forward.

S. AYHCLM, p. B118-1L

10 (2) Q. What physiological sense is the horse's most important for responding to cues in training?

A. Touch

S. HIH 1220

11 (3) Q. What is the most obvious clinical sign of pinworm infestation?

A. a rubbed tail or rattail

S. Evans, p. 640

12 (4) Q. A large infestation of BOTS can cause paralysis of what part of the Alimentary Canal?

A. The Esophagus

S. HIH 415 – 5

END ONE - ON - ONE

BEGIN OPEN QUESTIONS

13. Q. On the Western Saddle, what is the term for the outside of the back of the cantle?

A. Cantle Drop (Also accept Cheyenne Roll)

S. IDET, p. 47

14. Q. Define Heritability Estimate.

A. The percentage of the horse's expressed trait that is due to genetics. The probability of that trait being passed from one generation to the next.

S. YLM 335 – 2

TOSS UP - BONUS ATTACHED

15. Q. What is the name for the manager of an Equestrian team responsible for making all the arrangements, both on and off the field, for a national team competing abroad?

A. Chef d'equipe

S. IDET, p. 55

BONUS QUESTION

16. Q. Name five conformational defects whose common name refers to another species of animal.

A. Parrot mouthed Pigeon-toed, Monkey mouthed, Cow-hocked, Ewe-neck, Coon-footed, Goose-rumped, Pig-eyed, Wasp-Waisted, Roach-back, Herring-gutted, Cow-eyed, Calf-kneed S. Common Knowledge

RESUME OPEN QUESTIONS

17. Q. What is the name for the outer, protective layer of the horse's eye?

A. Cornea

S. IDET, p. 102

18. Q. What does quantitative gene action refer to in breeding?

A. It produces a trait that takes several genes to accomplish.

S. HIH 1020-3

19. Q. In reference to horse shoeing, ideally, the nails should exit the hoof how far above the shoe?

A. ¾ to 1 inch above the shoe

S. AYHCLM, p. A 321-2L

TOSS UP - BONUS ATTACHED

20. Q. Generally speaking, where on the horse is the "center of motion"?

A. Over the 15th vertebra or 10" behind the center of gravity.

S. IDET, p. 53

BONUS

21. Q. Name three functions of calcium in the body.

A. Bone formation, normal muscular action, blood clotting, enzyme action, cell membrane function, temperature regulation, neuromuscular function

S. Evans, p. 221

RESUME OPEN QUESTIONS

22. Q. Name one country, other than the US, whose Thoroughbred foals are registered with the Jockey Club.

A. Canada, Puerto Rico

S. HIH 157-1

23. Q. What is the hunting term used when the hounds lose the scent of the fox and stop?

A. Check (Also accept "Throw up" iDET, p.268)

S. IDET, p. 54

24. Q. What is the advantage of feeding Zeolite to young horses?

A. Increases bone density – decreases exertion induced bone injuries to young horses

S. Lewis, p. 99 – 100

25. Q. What is the difference between a slip ear and split ear bridle?

A. Split Ear – crownpiece is split allowing one ear to pass through. Slip Ear has a piece added to the crownpiece that can be slid to either side, allowing either ear to pass through

S. HIH 1108-8

TOSS UP – BONUS ATTACHED

26. Q. Give two (2) medical properties or uses for Dimethyl Sulfoxide (DMSO).

A. Anti-inflammatory; Antibacterial; Analgesic

S. IDET, p. 81

BONUS

27. Q. Name four ways to estimate age using teeth appearance.

A. Occurrence of permanent teeth (eruption pattern, Disappearance of cups, Angle of incidence Shape of surface, Galvayne's groove, Hooks

HIH 240 - 1

RESUME OPEN QUESTIONS

28. Q In reference to horses, what is a "daisy cutter"?

A. Horse that skims the surface of the ground at a trot – does not bend legs much at the trot

S. IDET, p. 77

29. Q. Give three of the five classifications of mares.

A. Pregnant, Open, Barren, Maiden, Wet (lactating or nursing)

S. HIH 940-1

30. Q. Name three functions housing for horses should accomplish?

A. Provide for the welfare of the horse, Provide for the safety, health and comfort, of human handlers, Make efficient use of labor, Be cost effective, Protect horse from elements, Shelter, Confinement

S. HIH 320-1

31. Q. What is the general term for an "inflammation of the brain"?

A. Encephalitis

S. IDET, p. 91

LAST QUESTION IN THE ROUND

32. O. Two part question, what is Colostrum and why isit important.

A. The mare's first milk It contains antibodies (immunoglobulins)

S. YLM 112 – 1L

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ROUND TEN ONE - ON - ONE

1. Q. What simple test is used to determine dehydration in the horse?

A. skin pliability test/pinch test

S. AYHCLM, p. 425-2

2. Q. What is the term for a lengthening of the trot stride without an increase in tempo?

A. Extended trot or extension

S. IDET, p. 101

3. Q. Name two characteristics of moldy hay.

A. Musty smell, whitish in color, dusty, unpalatable, moist/damp, hot

S. FCH, p. 70

4. Q. Which parasite of the horse comes in two types – biting and sucking?

A. Lice

S. HIH, p. 415-6

5 (1) Q. Explain the difference in the parentage of a mule and a hinny.

A. Mule – jack (male donkey) X mare (female horse)

Hinny – jennet (female donkey) X stallion (male horse)

S. Evans, p. 76

6 (2) Q. Which teeth are used to determine age?

A. The 12 incisor teeth

S. AYHCLM, p. 205-1

7 (3) Q. In reference to fox hunting, what is a "den"?

A. the home of a fox

S. IDET, p. 79

8 (4) Q. What is the term used for a horse that requires less feed than others under the same conditions?

A. Easy Keeper

S. FCH, p. 388

9 (1) Q. What is the name for the medical instrument used in the examination of the interior of a hollow organ such as the stomach?

A. Endoscope

S. IDET, p. 92

10 (2) Q. What was the original name for the Standardbred?

A. American Trotting Horse

S. Evans, p. 28

11 (3) Q. What is the racing term which refers to two or more contestants that arrive simultaneously at the finish line?

A. Dead heat (Photo finish is not correct as it does not necessitate a simultaneous finish only a close finish.)

S. IDET, p. 78

12 (4) Q. Name two types of salt blocks available for horses.

A. Iodized Salt, Selinized Salt, Rock Salt, Plain Salt, Trace-mineralized Salt

S. FCH, p. 226

END ONE – ON – ONE

BEGIN OPEN QUESTIONS

13. Q. At a standstill, where is the "center of gravity" located on a horse?

A. 6" behind the elbow

S. IDET, p. 52

14. Q. Name four types of hitches used on packing saddles.

A. Half, Single, Double and Triple Diamonds, Squaw, Arizona

S. HIH 1125-1

TOSS UP - BONUS ATTACHED

15. Q. Name three different types of horse racing.

A. Flat racing, harness racing and steeplechase - (also accept chuck wagon racing and chariot racing).

S. Evans, p. 20 - 25, 28 - 31

BONUS QUESTION

16. Q. Name four environmental considerations when choosing a location for a barn.

A. Drainage, Topography, Prevailing, winds, Solar radiation, Vegetation, Soil characteristics, Availability of water and Precipitation

S. HIH 310-1

RESUME OPEN QUESTIONS

17. Q. What is the general term for the last 10 pairs of ribs that are not connected to the sternum?

A. False Ribs or Floating Ribs

S. IDET, p. 104

18. Q. What is the flexible quirt that connects California reins to each other called?

A. Romal

S. HIH 1100=8

19. Q. In the United States, based on registry, which breed of draft horse is the most numerous?

A. Belgian

S. AYHCLM, p. B 110-1L

TOSS UP - BONUS ATTACHED

20. Q. Name the five walk gaits used in dressage tests.

A. Working, Collected, Medium, Extended and Free

S. Evans, p. 174

BONUS

21. Q. The horse's foot is uniquely designed to do seven things, name four.

A. Support weight, Resist wear, Replenish itself, Absorb shock, Provide traction, Conduct moisture, Assist in pumping blood.

S. HIH 505-1

RESUME OPEN QUESTIONS

22. Q. What is the collective term for stirrup leathers, stirrup irons and a girth?

A. Fittings

S. HIH, p. 1100-3

23. Q. In what part of the stallion's reproductive tract do sperm undergo modifications or maturation?

A. Epididymis

S. HIH 920-4

24. Q. What is the general term for the accumulation of excess fluid in the tissues under the skin causing a diffuse swelling of the area?

A. Edema or stocking up

S. FCH, p. 405

- 25. Q. What is the term for a bacterial infection of the udder?
- A. Mastitis
- S. FCH, p. 234

TOSS UP - BONUS ATTACHED

- 26. Q. At the age of 20, what is the shape of a horse's permanent middle incisor?
- A. Triangular
- S. CAHA, p. 48

BONUS

- 27. Name five clinical signs of Tetanus.
- A. Hyper responsiveness to touch, light or sound; Prolapse of the third eyelids; Gait or neck stiffness; Fever High pulse and respiration; Erect ears and tail; Locked Jaw (Trismus); Flared nostrils; Muscle spasms; Sweating; Convulsions; Depression; Respiratory or cardiac arrest
- S. HIH 645 1

RESUME OPEN QUESTIONS

- 28. Q. Rhinopneumonitis is a disease caused by what virus?
- A. Equine Herpes Virus
- S. FCH, p. 401
- 29. Q. Generally speaking, when it is said that a horse is "engaged", what does this mean?
- A. That the horse is using its hindquarters for impulsion
- S. IDET, p. 93
- 30. Q. In three-day eventing to which side of the jump would a rider correctly see a red flag?
- A. Right side
- S. IDET, p. 108
- 31. Q. At what age do Thoroughbred horses compete for the Triple Crown?
- A. Three years old
- S. Evans 22

LAST QUESTION OF THE ROUND

- 32. Q. When shipping one horse in a two-horse trailer, on which side of the trailer should the horse be loaded?
- A. Left side
- S. AYHCLM, p. I 104-6L

TIE BREAKER ONE

- 1. Q. In reference to teeth, what are "caps"?
- A: Caps are temporary teeth that sometimes fail to fall out when replaced by the permanent teeth.
- S. IDET, p. 48
- 2. Q. What is the general term for a separation between the rider and the horse that necessitates remounting?
- A. Fall
- S. IDET, p. 103

- 3. Q. What are the wing-like structures attached to the sides of the coffin bone that reduce concussion in the hoof?
- A. Lateral Cartilages
- S. HIH 505 4
- 4. Q. What hormone is responsible for milk let-down and contractions during parturition?
- A. Oxytocin.
- S. Evans, p. 340
- 5. Q. Define the two basic types of genetic action.
- A. Qualitative A particular trait influenced by 1-3 pair of genes.

Quantitative – A trait is influenced by a number of genes

S. HIH 1020 – 2

E