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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  900/3
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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
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9. C1  Q. What is the country of origin for the Connemara Pony?
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

11. C3  Q. What term describes the slope of the land when completing an “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
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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?
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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?
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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. 28 835/2
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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. 105 230/3
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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  Q. When performed correctly, which hind foot should remain more or less in place when completing a spin to the right in a reining pattern?
   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 chromosomes
   S. Evans p. 449  550/3

6. C2  Q. A “tie-down” is the Western 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 1st 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
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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 1040-3 300/3
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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  1070/3
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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. 781 920/3
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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  835/3
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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
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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 455-5 620/3
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. 181 640/2
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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 1040/3
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 760-5 780/3
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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. 760 920/3
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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 415-7 835/4
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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 710/3
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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. 114 440/3
6. C2  Q. Which type of Encephalomyelitis can be transmitted from “horse to horse”?

A. Venezuelan

S. Evans p. 169  820/3

7. C3  Q. What mineral is necessary for proper function of the thyroid gland?

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  850/3
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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 530-1 900/3
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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. 107 700/4
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. 100 400/3
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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. 207 835/3

29
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. 737 900/3
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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 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
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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 1060-4 550/3
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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 860/2
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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.
   
   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. 358 520/3

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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 1050/2
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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  1080/4
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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 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
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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  500/4
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**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 1050/3
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. 61 200/4
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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

23. 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 2 400/3
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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

**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

**Resume Open Questions**

28. Q. Beta-carotene is a nutritional source for which fat-soluble vitamin?

   A. Vitamin A

   S. Lewis p. 46

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
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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  550/3
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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  1000/4
5. C1  Q. What enzyme is produced in the fundus of the stomach 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

7. C3  Q. *Psoroptes equi* is a mite 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 Prophet’s thumb describe?
   
   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
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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. 17 200/4

Bonus Question
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 1080/2

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
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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
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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)

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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
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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 1080-1 550/4
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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  740/4
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. 240 510/4
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
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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. 296 700/4

Bonus Question
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 71 510/3

**Toss Up – Bonus Attached**
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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

21. 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 22 420/4

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

A. Hambletonian 10
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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…1\textsuperscript{st} premolar…2\textsuperscript{nd} molar…2\textsuperscript{nd} (intermediate) incisor
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A. 1\textsuperscript{st} premolar (wolf tooth) (5-6 months)
   2\textsuperscript{nd} molar (2 years)
   2\textsuperscript{nd} 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 \textit{most common} cause of infectious enterocolitis in \textit{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  1000/3
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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 600/3
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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 1070/4
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 910-3 480/4
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
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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 365-2 920/4

Bonus Question
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 360-4 920/3

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

A. Pneumonia
Toss Up – Bonus Attached

20. Q. (Bonus) You do the math… The Tevis Cup is a 100 mile 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?
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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. 247 410/4
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  410/5
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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 850-2 410/4
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  1000/4
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. 180 820/4

Bonus Question
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. Your 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. 5000 milligrams 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”?
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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
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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)
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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. 810 940/4
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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. 36 300/3
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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  800/4
5. C1  Q. How old would a horse be that has the 1st and 2nd premolars in place?
A. 2½ 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 1060-6 550/4
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
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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. 230 700/4
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)
   B. Hypochloremia (low chloride)
   C. Hypokalemia (low potassium)
   D. Hypocalcemia (low calcium)
   E. Acidosis

   **S. HIH 660-3 805/5**

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. 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
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
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 Trichostrongyulus which is usually only seen in horses grazed with ruminants?

A. Hairworms

S. Lewis p. 158, p. 407 835/5
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Extra Bonus Questions

1. Q. (Bonus) Identify the five coriums that nourish the hoof.
   
   A. Perioplic corium
   Coronary corium
   Laminar corium
   Frog corium
   Sole 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 950-10 500/4
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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. 66 200/4
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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 58 440/4
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. 99 410/4
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

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
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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  700/4

800
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
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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 1090/4
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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 1020/3