One-On-One

1. C1  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

2. C2  Q. JEB or Junctional Epidermolysis Bullosa is a fatal disorder that results in foals with skin and mouth ulcers that become more extensive with age. This disease primarily affects which breed of horse?
   A. Belgians
   S. HIH 1095-2 550/4

3. C3  Q. What is the name of the large muscle in the lower jaw that raises the jaw during chewing?
   A. Masseter muscle
   S. DET p. 176 410/4

4. C4  Q. Half round shoes are most commonly used on what type of horse?
   A. Harness racing horses, reining horses or occasionally foals (only need to give one answer)
   S. HIH 515-3, 525-4 900/3
5. C1  Q. The digital cushion fills the area between the frog and what tendon?
   A. The deep digital flexor tendon
   S. Kainer plate 27  480/3

6. C2  Q. How many pounds of manure can a 1000 pound horse generate in one day?
   A. 45 to 50 pounds (accept any answer in this range)
   S. HIH 360-2  920/3

7. C3  Q. Why are fats and carbohydrates more desirable than protein as energy sources, especially in the warmer months of the year?
   A. Fats and carbohydrates produce less heat when turned into energy (less chance of heat exhaustion)
   S. ES p. 118  710/4

8. C4  Q. What is micturition?
   A. Urination
   S. Evans p. 119  470/4
9. C1  Q. In regards to supporting leg interference, what do the terms “brushing” and “striking” describe?
A. The severity of the interference (brushing is slight contact and striking results in an open wound)
S. Evans p. 179 640/4

10. C2  Q. How did the “doghouse” stirrup get its name?
A. It is the old, wide wooden stirrup and got its name because “it had enough wood in it to build a dog house”
S. DET p. 83 1000/4

11. C3  Q. Laryngeal hemiplegia or roaring occurs when the larynx does not fully open on inspiration. What type of anatomic structure is damaged to create this condition?
A. Nerve to the larynx (also accept nerve or recurrent laryngeal nerve)
S. Evans p. 608; HIH 810-3 820/3

12. C4  Q. What is the term for the musical freestyle performance in dressage?
A. Kur
S. DET p. 162 1090/4

End One-On-One
Begin Open Questions

13. Q. Although it is described as German Silver, a bit made from this material is not made from silver and is actually a combination of 3 different metals. Name one of the metals found in German Silver.

   A. Copper, nickel and stainless steel
   S. HIH 1100-10 1000/4

14. Q. What is the name for the ligament that runs from poll to withers and helps support the horse’s head?

   A. Ligamentum nuchae (also accept nuchal ligament)
   S. DET p. 168 410/5

15. Q. A horse with chronic renal failure would require a diet that has less of certain nutrients. Name one of these nutrients.

   A. Protein, calcium and phosphorus
   S. Lewis p. 296 700/4

16. Q. What condition is caused by Fusobacterium necrophorum?

   A. Thrush
   S. Kainer plate 23 815/4
Toss Up – Bonus Attached

17. Q. Gonadotropin releasing hormone is secreted from the hypothalamus and causes the anterior pituitary to release what two hormones in the mare?

   A. LH (Luteinizing hormone) and FSH (Follicle stimulating hormone)
   
   S. Evans p. 337

Bonus Question

18. Q. (Bonus) Other than death, give four symptoms of cyanide poisoning.

   A. Cherry-red venous blood, rapid labored breathing, frothing at the mouth, dilated pupils, incoordination, muscle tremors, convulsions, dark red or cyanotic mucous membranes
   
   S. Lewis pp. 336-337

Resume Open Questions

19. Q. In reference to horse shoes, what is the name for heel calks on the front on plates?

   A. Jar calks
   
   S. Evans p. 734
2010 New York State Senior 4-H Horse Bowl
Round 7

20. Q. Horses with “sweet clover” poisoning would be given intravenous Vitamin K to treat what hematologic abnormality?

A. Prolonged clotting time

S. Lewis p. 332 770/4

21. Q. This disease results in stretchy skin due to separation between the superficial and deep layers of the skin. HC, HERDA or Equine hyperelastosis cutis is a disease that primarily affects which breed of horse?

A. Quarter Horses

S. HIH 675-1 550/4

22. Q. What two things will become a problem when 10% or more of the soil is exposed as a result of overgrazing?

A. Weeds and soil erosion

S. HIH 360-4 920/4

23. Q. A deficiency of phosphorus or calcium in a mature horse would result in osteomalacia. What is the definition of osteomalacia?

A. Softening of the bones (do not accept rickets which is a condition that develops in young growing horses from this dietary deficiency)

S. Evans p. 227, 229; DET p. 197 750/4
2010 New York State Senior 4-H Horse Bowl
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Toss Up – Bonus Attached

24. Q. Most gaits are symmetrical, indicating that the limb coordination patterns on one side are repeated on the other side half a stride later. Identify the two gaits in the horse that are “asymmetrical”.

A. Canter/lope and gallop

S. Evans p. 172 640/3

Bonus Question

25. Q. (Bonus) Correctly identify four cranial nerves by the following descriptions.
   - Nerve responsible for the sense of smell
   - Nerve with three sensory branches to the face, tongue and teeth
   - Nerve responsible for vision
   - Nerve responsible for motor function to the face

A. Olfactory nerve (smell)
   Trigeminal nerve (face, tongue, teeth)
   Optic (vision)
   Facial (facial motor)

S. Kainer plate 78 420/5

Resume Open Questions

26. Q. Although this is probably more commonly known as a slang term for a favorite type of soda, this is also the Spanish term for roping classes. What is this term?

A. Colas

S. DET p. 61 1060/4
27. Q. What is the medical term for the type of emphysema when there is an abnormal presence of air **under the skin** of the horse?

A. Subcutaneous emphysema

S. Lewis p. 388 850/4

28. Q. What is the correct medical terminology for the **muscle** that causes the hair to stand on end and helps keep the horse warm in cold weather?

A. Erectores pilorum (do not accept erector muscle)

S. DET p. 99 460/4

29. Q. The International Trotting and Pacing Association governs the rules for what breed?

A. The Trottingbred

S. Evans p. 67 210/3

**Last Question of the Round**

30. Q. Give one advantage of using a double-rigged cinch on a pack saddle.

A. Eliminates the problem of the back cinch sliding back, more comfortable for the horse, usually has extra rings (extra location to tie the lash rope), prevents a “rodeo” ride, less likely to develop skin lesions from friction

S. HIH 1125-3 1020/3