

## **2006 New York State Senior 4-H Horse Bowl Round Four**

### **One-On-One**

1.   C1   Q.   What breed was developed from the Thoroughbred, Norfolk Trotter, Barb, Morgan and Canadian Pacers and was once called the American Trotting Horse?

          A.   Standardbred

          S.   Evans pg 28                           0200/3
  
2.   C2   Q.   Name the horse color that usually has black points and a dorsal stripe, and the hair color is not a mixture of black and white, but each hair is a smoky or mouse color.

          A.   Grullo

          S.   HIH 140-1, DET pg 125           300/2
  
3.   C3   Q.   At what age would you find the central deciduous incisors erupting in a foal?

          A.   Birth to 7 days (accept anything in that range)

          S.   HIH 405-1                           430-3
  
4.   C4   Q.   Horses, guinea pigs and rabbits are classified as nonruminant herbivores because they do not have a rumen, but they are still able to digest forages in what structure?

          A.   Cecum (also accept large colon)

          S.   Evans pg 189                       430/3

**2006 New York State Senior 4-H Horse Bowl  
Round Four**

5. C1 Q. A group of horses possessing specific distinguishable characteristics, such as function, conformation and color that are not common to other horses would be defined by what term?
- A. Breed
- S. Evans pg 137 0200/2
6. C2 Q. What shoe would you choose to apply pressure to the frog area, relieving pressure on the sole and lamina and helping prevent further rotation of the coffin bone?
- A. Heart-bar shoe or full support shoe
- S. Evans pg 751, HIH 540-4 900/3
7. C3 Q. What will be the effect on the stride of a horse with a shoulder angle less than 45 degrees compared to ideal shoulder conformation?
- A. The stride length will be longer
- S. AYHC-YLM ADV 323-3 L 0600/3
8. C4 Q. What is the term for the accumulation of excessive synovial fluid in the joint capsule of the fetlock?
- A. Wind-puffs
- S. Kainer – Plate 14, DET pg 224 620/3

**2006 New York State Senior 4-H Horse Bowl  
Round Four**

9. C1 Q. What is the proper term for horse shoeing that is used as a mechanical technique to assist in the medical treatment of foot or limb disease?
- A. Therapeutic shoeing (**not corrective**)
- S. AYHC-YLM-INT 2321-1 0900-/3
10. C2 Q. What is the foundation for any successful fly control program?
- A. Sanitation or manure management.
- S. HIH 415-3 1100/3
11. C3 Q. What is the name for the small boat shaped bone that the deep flexor tendon passes over before it attaches to the coffin bone?
- A. Navicular bone (distal sesamoid, shuttle bone)
- S. Lewis pg 397 400/3
12. C4 Q. What product do the sebaceous glands located in the dermis layer of the skin produce?
- A. Sebum
- S. Kainer plate 5 460/3

**2006 New York State Senior 4-H Horse Bowl  
Round Four**

13. C1 Q. In hands, what is the maximum height a registered American Miniature Horse can be?
- A. 8.2 hands (34 inches)
- S. AYHC-YLM Beg 110-2 L 0200/3
14. C2 Q. What joint is subjected to the greatest strain of all of the horse's joints?
- A. Fetlock or metacarpal-phalangeal joint.
- S. Evans pg 689 400/3
15. C3 Q. How many deciduous teeth has the normal horse shed by five years of age?
- A. 24 teeth – 12 incisors and 12 premolars – the molars are permanent teeth.
- S. HIH 405-1 430/3
16. C4 Q. What is the name for the cellular filters that collect fluids from between cells and work to prevent bacteria and foreign matter from entering the blood stream?
- A. Lymph nodes
- S. DET pg 173, Evans pg 113. 440/3

**End One-On-One**

**2006 New York State Senior 4-H Horse Bowl  
Round Four**

**Begin Open Questions**

17. Q. Which vitamin functions to maintain plasma calcium concentrations and is known as the “sunshine vitamin”?
- A. Vitamin D
- S. Lewis pg 48 740/2
18. Q. The process of reproduction in the mare is driven by the action of what group of substances?
- A. Hormones
- S. HIH 910-5, AYHC-YLM-ADV 326-2 L 480/3
19. Q. What artificial means can be used to stimulate mares to cycle early in the breeding season?
- A. Photo-stimulation – increasing light
- S. Evans pg 383 480/3
20. Q. What are two ways you can encourage an aggressive eater to eat slower?
- A. Placing bricks or softball size stones in the feed box; Feeding in large shallow troughs; feeding extruded feeds; mixing chopped hay with the concentrate; bars in the feed box, automatic feeder to feed in small doses and feed nervous horses first.
- S. HIH 710-8, Lewis pg 94 710/3

## 2006 New York State Senior 4-H Horse Bowl Round Four

### Toss Up – Bonus Attached

21. Q. Name two of the three elastic structures of the equine hoof that function as shock absorbers.
- A. 1 – Frog  
2 – Lateral cartilages  
3 – Digital or plantar cushion
- S. AYHC-YLM-INT 206-2 L                      400/3

### Bonus Question

22. Q. Bonus question: The average hoof growth rate for all horses is 3/8 inch or 1 cm. per month. Name four situations or conditions that would cause this growth rate to increase.
- A. 1 – Young horses grow faster than older horses  
2 – Warm temperatures produce faster growth than cold temperatures  
3 – Irritation or injury increase growth rate  
4 – Increased wear or exercise increase growth rate  
5 – Optimal nutrition increases growth rate compared to marginal or poor nutrition
- S. AYHC-YLM-INT 206-3                      400/4

### Resume Open Questions

23. Q. If one parent is homozygous for a dominant color and the other parent is heterozygous for the same dominant color, what color will the foal be from this mating?
- A. The same color as the parents
- S. HIH 1040-1                      550/2

**2006 New York State Senior 4-H Horse Bowl  
Round Four**

24. Q. What vitamin functions jointly with selenium in protecting body tissues from oxidation induced damage?
- A. Vitamin E
- S. Lewis pg 28 740/4
25. Q. Side bone is the term for the complete ossification of the cartilages of which phalanx?
- A. Distal Phalanx (Pedal bone, 3<sup>rd</sup> Phalanx, Coffin bone)
- S. Kainer Plate 12 800/4

**Toss Up – Bonus Attached**

26. Q. Name two congenital defects of the mandible.
- A. Parrot mouth (overshot jaw)  
Monkey mouth (undershot jaw)
- S. Evans pg 93 600/3

**Bonus**

27. Q. Bonus question: Give four reasons why you would choose to feed hay in a cubed form rather than loose hay.
- A. 1 – Less waste  
2 – Reduced intestinal fill; allows the horse additional feed intake  
3 – Easier storage; less space required  
4 – Reduced transportation costs  
5 – Easier to transport when away from home traveling or at a show  
6 – Minimizes dust  
7 – Can be used in automated feeders  
8 – Decreased fecal material
- S. Lewis pg 67 710/3

## 2006 New York State Senior 4-H Horse Bowl Round Four

### Resume Open Questions

28. Q. A normal capillary refill time for the horse is less than how many seconds?
- A. 2 to 3 seconds (accept anything in this range)
- S. Lewis pg 384, HIH 425-2 870/3
29. Q. Give the scientific name including genus and species of the parasite that is the major concern of foals up to six months of age.
- A. Parascaris equorum
- S. HIH 950-9 880/4

### Last Question of the Round

30. Q. What pack saddle is being described – usually rigged for a double cinch, sheepskin lining is usually installed on the blades of the saddle and the saddle is the best for use with panniers?
- A. Crossbuck or sawbuck
- S. HIH 1125-1 1020/3
30. Q. What is the term used for a horse that has a steep croup that narrows at the points of the buttocks?
- A. Goose-rumped
- S. Evans pg 154, DET pg 123 600/3