

2006 New York State Senior 4-H Horse Bowl Round Five

One-On-One

1. C1 Q. What toxic effect does moldy clover hay have on the horse?

A. It is an anti-coagulant – blood will not clot (depletion of Vitamin K).

S. HIH 750-3, Lewis pg 332 730/4

2. C2 Q. What vitamin is essential for normal hoof growth and development?

A. Vitamin A (Biotin is not a correct answer)

S. AYHC-YLM-INT 206-1 400/3

3. C3 Q. What nerve is responsible for the horse's sense of smell?

A. Olfactory nerve

S. Kainer plate 78 420/4

4. C4 Q. What gland in the horse has exocrine function that secretes enzymes for digestion and an endocrine function that secretes the hormones insulin and glucagon?

A. Pancreas

S. Kainer – Plate 54 430/2

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5. C1 Q. What is the major component of blood that suspends the blood cells and is composed of water, ions, proteins and lipids?
- A. Plasma
- S. Evans pg 117 440/3
6. C2 Q. An accumulation of fluid in the lungs from a noninfectious cardiac problem would be termed what?
- A. Pulmonary edema
- S. DET pg 222 440/4
7. C3 Q. One of the distinguishing characteristics of the Appaloosa is a spotted coat pattern. With regard to this coat pattern where is the white blanket found on the horse.
- A. Over the hip area
- S. AYHC-YLM-BEG 117-1 L 300/3
8. C4 Q. What form of tetanus vaccine should be used in horses for repeat vaccinations and/or in a horse's annual vaccine program to provide an active immunity from *Clostridia tetani*?
- A. Tetanus toxoid
- S. HIH 445-2 890/3

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9. C1 Q. How is a dominance hierarchy or pecking order established in a herd of horses?
A. Through aggression
S. Evans pg 677, Lewis pg 152 900/3
10. C2 Q. Inflammation of the hocks is the most common lameness problem in what racing breed?
A. Standardbred
S. Evans pg 155 800/3
11. C3 Q. Protein metabolism results in nitrogenous waste products that are cleared from the body by what organ?
A. The kidneys
S. Kainer plate 68 470/3
12. C4 Q. Soybean meal is high in crude protein and is a frequently used supplement for horses for what other reason?
A. Cost – it is the least expensive per unit of protein provided
S. AYHC-YLM-ADV 302-1 L, Lewis pg 142 700/3

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13. C1 Q. The foundation sire of the Pony of the Americas, Black Hand No.1, was the result of mating what two breeds?
- A. Appaloosa (mare) and Shetland (stallion)
- S. Evans pg 60, fig 2-39 200/3
14. C2 Q. Name the movement of the horse where there is no forward movement, the horse steps with both forequarters and hindquarters moving together with a crossover step and moving the horse sideways.
- A. Side pass
- S. DET pg 245 600/2
15. C3 Q. What are the two major factors that determine the traits and characteristics of a horse?
- A. Heredity (genetics) and environment.
- S. HIH 1020-3 550/3
16. C4 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 pg 275 500/4

End One-On-One

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Begin Open Questions

17. Q. What type of nerve brings sensations of pressure, pain, heat and cold from the nerve endings in the horse's dermis?
- A. Sensory nerves
- S. Kainer plate 5 420/3
18. Q. When cartilage or fibrous tissue is ossified what is it formed into?
- A. Bone
- S. Lewis pg 398, DET pg 197 600/3
19. Q. What pair of bones serves as pulleys to change the direction of the deep digital flexor tendon and are located at the caudal aspect of the fetlock joint?
- A. Proximal sesamoid bones
- S. Kainer plate 12 400/3
20. Q. Which category of the horse's bones function to help absorb the concussive forces exerted on the horse's skeletal structure?
- A. Short bones
- S. Evans pg 90 400/2

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Toss Up – Bonus Attached

21. Q. Maiden is a term used for horses that can have two different meanings. Explain the two terms.
- A. A horse that has never won a race and a mare that has never been bred or has never become pregnant.
- S. Lewis pg 395, DET pg 174 500/3

Bonus

22. Q. Bonus Question: Not using specific diseases, name five general causes for a horse to be thin and malnourished.
- A. 1 – Poor or inadequate forage available
2 – Dental problems
3 – Excessive parasites
4 – Increased energy demands from work or pregnancy
5 – Prolonged hot and humid weather
6 – Chronic disease
7 – In a group; being low in the pecking or dominance order
- S. Lewis pg 152 710/4

Resume Open Questions

23. Q. How old would a horse be with all deciduous teeth present and the central adult incisors just starting to erupt?
- A. 2 ½ years old
- S. AYHC-YLM-INT 205-2 430/3

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24. Q. In a balanced horse, the length of the horse's legs will be approximately the same length as the depth of what other measurement of that horse?
- A. Depth of heart (also accept heart girth)
- S. AYHC-YLM-ADV 323-2 L, HIH 220-6 600/3
25. Q. What is the name of the muscular structure that serves as the barrier between the vagina and the uterus?
- A. Cervix
- S. AYHC-YLM-ADV 326-1-L 500/4

Toss Up – Bonus Attached

26. Q. Two part question. Where on the horse would you find the orbital cavity and what function does it perform?
- A. It is part of the skull and it is the bony socket that surrounds and protects the eye.
- S. Evans pg 90 400/2

Bonus

27. Q. Bonus question: From proximal to distal name the six joints of the fore leg.
- A. Shoulder, elbow, knee (carpus), fetlock, pastern and coffin
- S. Evans pg 98 400/2

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Resume Open Questions

28. Q. What are two asymmetrical gaits where the limb pattern on one side is not exactly repeated on the other side?
- A. Gallop and canter (lope)
- S. Evans pg 172 640/3
29. Q. What is the name for the smallest blood vessels that connect the arterial flow to the venous return?
- A. Capillaries
- S. Lewis pg 384, DET pg 47 440/2

Last Question of the Round

30. Q. Horses in a group are likely to run simply because another horse is running. If the running is not in response to fright, what type of behavior is this?
- A. Mimicry or Allelomimetic Behavior; copycat
- S. Evans pg 676 900/4