

2005 Eastern National 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
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- 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
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- 3 C3 Q. What nerve is responsible for the horse's sense of smell?
- A. Olfactory nerve
- S. Kainer plate 78 420/4
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- 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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- 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
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- 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
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- 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
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- 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

End One-On-One

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Begin Open Questions

- 13 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 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

Toss Up – Bonus Attached

- 15 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

Bonus Question

- 16 Q. Bonus question: Name 4 striding leg interference gait defects of the horse.
- A. 1 – Forging 6 – hock hitting
2 – Cross firing 7 – over reaching
3 – Scalping
4 – Speedycutting
5 – Shin hitting
- Do not accept brushing and striking which are supporting leg interferences**
- S. Evans pg 179 600/3

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Resume 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

Toss Up – Bonus Attached

- 20 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

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Bonus

- 21 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

- 22 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
- 23 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
- 24 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

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- 25 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

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

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

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- 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
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
- 31 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

Last Question of the Round

32. 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