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
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. Which 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
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

End One-On-One
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
      2 – Cross firing
      3 – Scalping
      4 – Speedycutting
      5 – Shin hitting
      6 – hock hitting
      7 – over reaching
      Do not accept brushing and striking which are supporting leg interferences
   S. Evans pg 179 600/3
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
2005 Eastern National 4-H Horse Bowl
Round Five

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

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

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

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
2005 Eastern National 4-H Horse Bowl
Round Five

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
2005 Eastern National 4-H Horse Bowl
Round Five

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