2007 Eastern National 4-H Horse Bowl  
Round Six

One-On-One

1. C1  Q. If you were able to check the heart rate of your horse on a prolonged gallop, how high would you expect your horse’s heart rate to be?
   
   A. Accept any answer in the range 200 to 250 beats per minute
   S. HIH 851-4 800/4

2. C2  Q. What breed registry is attempting to maintain the bloodlines of horses brought to the New World by the Spanish 500 years ago?
   
   A. The Spanish Mustang Registry (do not accept Mustang Registry – must say Spanish in the answer)
   S. HIH 183-1 210/4

3. C3  Q. What is wrong with this statement – The umbilical cord stump should be dipped in a 2% solution of iodine after you cut the umbilical cord.
   
   A. The umbilical cord should never be cut – it should be broken. If cut there will be excessive hemorrhage from the stump
   S. HIH 950-1, Lewis 250 530/3

4. C4  Q. Why would you examine the wear pattern on the shoe that was just removed from your horse’s hoof?
   
   A. An uneven wear pattern on the horseshoe indicates that the foot is breaking over at a point other than at the toe, or that the foot is landing out of balance.
   S. Evans 742 900/4
5. C1  Q. What is the name of the process of heating a food material, usually a liquid, to a specific temperature for a specific length of time for the purpose of destroying bacteria?
   A. Pasteurization
   S. DET 205  700/3

6. C2  Q. What is a characteristic of wire mesh, high tensile wire, and electric fences that can result in injury to the horses confined by this type of fencing?
   A. These types of fencing are difficult for the horses to see.
   S. HIH 350-4  920/3

7. C3  Q. Why do you measure a horse’s height at the withers?
   A. It is the tallest, reasonably immobile, and most constant part of the horse’s topline.
   S. Evans 151  400/3

8. C4  Q. What common term would be used to describe a situation where the superficial flexor tendon is swollen due to tendonitis?
   A. Bowed tendon
   S. Kainer plate 19, DET 36  620/3
9. C1 Q. What perennial weed has five bright yellow petals and five green sepals and may cause diarrhea and colic if ingested by the horse?
   A. Buttercups
   S. Lewis 306 770/3

10. C2 Q. When driving a horse and turning right, which rein is the bearing rein?
    A. Bearing rein is the left rein (rein opposite the direction of the desired movement)
    S. DET 25 1050/3

11. C3 Q. If a horse suddenly starts rubbing its tail or rump, it is commonly thought to be caused by pinworms. However, there are other parasites that can cause this. Name one other parasite that would cause this behavior in the horse?
    A. Lice, mange mites, biting midges
    S. Evans 640, Lewis 158 865/4

12. C4 Q. What is the part of the brain that controls basic body functions such as temperature, respiration, and heart rate?
    A. The brain stem (medulla oblongata)
    S. DET 37 420/3

End One-On-One
Begin Open Questions

13. Q. In horse racing, what is the term used for a jockey in training?
   A. Apprentice or bug boy
   S. DET 14, 42 1040/3

14. Q. What procedure is being described? Anesthetic injections are given to numb certain parts of the body. This is used to diagnose the location of lameness or to facilitate standing surgeries.
   A. Nerve block, block, or local anesthetic (do not accept nerving)
   S. DET 32, 189 820/3

Toss Up – Bonus Attached

15. Q. Both base wide and base narrow stances place weight unevenly on the hoof. Name two orthopedic conditions that tend to develop due to this uneven weight distribution.
   A. Ringbone and sidebone
   S. HIH 230-3 620/5

Bonus Question

16. Q. Name five ways you can evaluate the fitness and soundness of your horse for training prior to a work or exercise period.
   A. Heart rate Temperature (not typical, but would accept)
   Respiratory rate CRT (Capillary refill time – crude measurement of blood pressure)
   Visual observation of the horse at a walk or trot
   Soreness or sensitivity of the back or loin noted while grooming
   Soreness or lameness on flexion testing
   Soreness or lameness on warm-up ride
   S. HIH 851-3 800/3
Resume Open Questions

17. Q. In what joint would you find a fibrocartilage structure called a meniscus that is located between the articulating surfaces of that joint?
   A. Stifle or femorotibial joint
   S. Kainer 13
   410/5

18. Q. Why is immature hay at the pre-bloom or boot stage more desirable as a feed for horses than mature hay?
   A. At this stage of growth the hay is most easily digested by the horse – the highest leaf to stem ratio and has the highest nutrient value
   S. YLM 337-2L, Lewis 68
   700/3

19. Q. What bit is being described? This bit looks like a snaffle bit, but it has slots at the top of the rings for the headstall to be attached and hooks for curb chain attachment.
   A. Kimberwicke
   S. HIH 1100-10, DET 161
   1000/3

Toss Up – Bonus Attached

20. Q. Name two organs where you might find Parascaris equorum as adults or larvae.
   A. Small Intestine, lungs, liver
   S. Lewis 157
   835/3
21. Q. Name the parts of the horse’s foregut in correct order starting from the mouth and including the three parts of the small intestine.
   A. Mouth (not necessary to name)
      Esophagus
      Stomach
      Duodenum
      Jejunum
      Ileum
   S. HIH 710-2, DET 249  430/3

22. Q. What is the term when a horse intentionally canters on the opposite lead to the direction of travel?
   A. Countercanter (not wrong lead)
   S. DET 70  640/3

23. Q. What set of upper and lower teeth appear in the interdental space and are often absent or rudimentary in the mare?
   A. Canine teeth, tushes, or tusks
   S. Kainer plate 48, HIH 240-3, DET 46  430/2

24. Q. Which breed of draft horse has extensive white face and leg markings, long strides with extreme flexion of the knees and hocks, long silky hair on the lower legs and originated in Scotland?
   A. Clydesdale
   S. Evans 72, DET 59  200/3
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25. Q. In general, what is the main difference in the design of a cart and a carriage?

A. Cart has two wheels and a carriage has four wheels

S. DET 48, 49 1050/2

Toss Up – Bonus Attached

26. Q. What are two prerequisites necessary for the fly’s life cycle to be successful?

A. Breeding materials
   Moisture
   Warmth

S. YLM 300-1L, HIH 415-3 865/3

Bonus Question

27. Q. Open front shelters or run-in sheds have become increasingly popular because of the many advantages they offer. Name five advantages.

A. Inexpensive to build
   Require less labor
   Less fire hazard
   Can be cleaned w/tractor
   More exercise

   Inexpensive to maintain
   Good ventilation
   Less bedding/horse
   Decreased behavior problems
   Less space/horse compared to stalls

S. Evans 772 920/3

Resume Open Questions

28. Q. Which bone of the horse am I describing? “The bone is very porous and blood vessels pass into and out of the pores. Lateral cartilages are attached to the wings of this bone.”

A. The third phalanx, also known as the distal phalanx, pedal, or coffin bone

S. Evans 686, Kainer plate 12, DET 60 410/3
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29. Q. What is the common name for the “four-in-hand knot” that is tied the same as the knot in a man’s tie and is used to secure a saddle in place when a buckle is not used?

A. Cinch knot

S. DET 57 1000/3

30. Q. There are four different types of spavin involving the horse’s hock joint. Which spavin forms a soft distension of the joint due to synovial membrane inflammation?

A. Bog spavin

S. Lewis 404, Evans 165, DET 34 810/3

31. Q. When trailering your horse long distances, it is recommended you offer water to your horse every three to four hours. Since you cannot carry enough water for the entire trip, how can you deal with taste changes in water?

A. Use additives to the water to mask the taste changes such as lemonade, sports drink powder, electrolyte solutions or soft drinks.

S. YLM 301-2 960/4

Last Question of the Round

32. Q. Which chamber of the heart does blood returning from the body by the cranial and caudal vena cava enter first?

A. Right atrium

S. Kainer plate 57 440/3