



**2007 Eastern National 4-H Horse Bowl  
Round Six**

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

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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**

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**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

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**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

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**Bonus Question**

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

**Resume Open Questions**

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                      Inexpensive to maintain  
Require less labor                          Good ventilation  
Less fire hazard                              Less bedding/horse  
Can be cleaned w/tractor                  Decreased behavior problems  
More exercise                                  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