

2006 Eastern National 4-H Horse Bowl

Round Nine

One-On-One

1. C1 Q. The frontal bone, zygomatic bone, and lacrimal bone form what anatomic structure?
- A. Orbit
- S. Kainer Plate 41, DET pg 247 410/4
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2. C2 Q. When feeding a pelleted or extruded feed made from the same ingredients, why would it be important to feed by weight and not by volume?
- A. The extruded food is expanded during production resulting in air being trapped in the feed making it necessary to feed a larger volume to get the same nutrient value.
- S. Evans pg 280, Lewis pg 92 700/4
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3. C3 Q. The equine liver will function at near optimal levels until approximately what percent of it is destroyed?
- A. 80 % (accept 70 to 80 %)
- S. Lewis pg 308 800/4
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4. C4 Q. What does a skin pliability test check for?
- A. Dehydration
- S. YLM 115-1 870/3

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| 5. C1 | Q. | Where would you look on your horse to find the perineum? | |
| | A. | Below the tail – area between the anus and the scrotum or vulva | |
| | S. | Kainer Plate 53 | 400/4 |
| 6. C2 | Q. | Grazing alsike clover can cause photosensitivity and hepatitis when consumed during what weather conditions? | |
| | A. | During wet or humid weather | |
| | S. | Lewis pg 314 | 770/4 |
| 7. C3 | Q. | The term “gonitis” would describe the inflammation and lameness of which joint of the horse? | |
| | A. | Stifle | |
| | S. | Evans pg 164 | 810/4 |
| 8. C4 | Q. | Ideally, how much wider should the web of the horseshoe be compared to the width of the hoof wall? | |
| | A. | Twice the thickness. | |
| | S. | HHH 535-5 | 900/4 |

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| 9. C1 | Q. | What substance is given orally to horses via stomach tube and used to bond to and inactivate ingested toxins to prevent their absorption in the intestinal tract? | |
| | A. | Activated charcoal | |
| | S. | DET pg 3 | 770/4 |
| 10. C2 | Q. | What is the proper term for an inflammation of the mucous membranes of the mouth? | |
| | A. | Stomatitis | |
| | S. | DET pg 257 | 830/3 |
| 11. C3 | Q. | In removing a traditional nailed on keg shoe, what is the first step the farrier will do to remove the shoe after cleaning and examination of the hoof ? | |
| | A. | Open or cut the clinches | |
| | S. | HIH 535-2 | 900/3 |
| 12. C4 | Q. | What term is used to describe the process of desensitization of the foal to the farrier and the routine handling and examination of the feet? | |
| | A. | Imprint training | |
| | S. | HIH 525-2 | 900/4 |

End One-On-One

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Begin Open Questions

13. Q. Where would you find a “stabilizer” or “roper’s” bar?
- A. On a bit, connecting the shanks where the rein loops are attached.
- S. DET pg 67 1000/4
14. Q. What product do the apocrine tubular glands located in the dermis layer of the skin produce?
- A. Sweat
- S. Kainer plate 5 460/3

Toss Up – Bonus Attached

15. Q. (Two Part) If the horse has a fracture of the olecranon, what bone and joint would be involved?
- A. Ulna, elbow
- S. Kainer plate 10 410/4

Bonus Question

16. Q. (Bonus question) Name four advantages of barn/stall housing for horses compared to run-in shelters and pasture.
- A. Able to monitor diet Safer from horse-horse injury
Able to control exercise
Horses kept cleaner
Horses readily available for owners use
Closer observation
Easier to medicate
- S. Evans pg 773 920/3

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Resume Open Questions

17. Q. You are using a hoof tester as part of a lameness evaluation of the horse's right forelimb. You consistently notice sensitivity with pressure at a specific location. What else would you do with the hoof tester to confirm this as a possible basis for your lameness diagnosis?
- A. Compare the response to the left forelimb hoof.
- S. HIH 530-3 815/5
18. Q. What structure of the hoof am I? I am very elastic and have few blood vessels or nerve endings. I am located between the lateral cartilages and absorb concussive forces from the pastern coffin bones and frog. I am wedge shaped and composed of fibrous tissue and fat.
- A. Digital cushion
- S. HIH 505-4 415/4
19. Q. What is the stage of the mare's estrous cycle that follows her estrus or heat and lasts approximately 14-15 days until she is either pregnant or reverts back to anestrus?
- A. Diestrus
- S. DET pg 81, YLM 326-2 480/3

Toss Up – Bonus Attached

20. Q. (Two Part) When horses lick at the areas where bot eggs are attached, what two necessary factors is the horse providing that allows the bot eggs to hatch?
- A. Friction, moisture and warmth
- S. HIH 430-3, Evans pg 635 835/4

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Bonus

21. Q. (Bonus question) If you were building a run-in shelter on your farm, name five factors you would include in its design, location, and/or construction.

A. Face away from prevailing winds
Minimum of 20 feet deep
In the northern half of the US face to the south to take advantage of the winter sun
Opening at least 10 feet high
Wide enough for all horses to exit simultaneously
Padded center posts
Minimum 75 - 120 sq ft per horse
No sharp edges
Corners designed so horses do not get trapped
Roof slopes away from opening
Located on high ground or graded so that there is good drainage
Do not use metal roof – scares horses

S. Evans pgs 772-3, Lewis pg 181 920/3

Resume Open Questions

22. Q. One of the advantages of open front shelters or run-in sheds is their better ventilation. How would this benefit your horse?

A. Fewer respiratory disease problems

S. Evans pg 772 920/3

23. Q. If you were to take the pulse of a normal healthy, physically fit horse that has just been galloping for 5 minutes would you expect the heart rate to be 100, 150 or 200 beats per minute?

A. 200

S. Lewis pg 206 440/4

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24. Q. Name one plant that can cause a Vitamin B1 (Thiamine) deficiency?
- A. Horsetail (snake grass, maretail, horserush) or bracken fern
- S. Lewis pg. 319-320 770/4
25. Q. In designing an equine facility, one of the primary considerations is the safety of the horses and the handlers. Design is influenced significantly by one **primary** behavioral response that the horse exhibits as a defensive measure. What is that behavior?
- A. Flight when fearful
- S. HIH 320-1 920/5

Toss Up – Bonus Attached

26. Q. Even though a complete feed contains all of the nutrients needed by the horse, what two dietary nutrients should your horse always have available?
- A. Water and salt
- S. Lewis pg 385 700/4

Bonus

27. Q. (Bonus Question) Name four things horses shown at Halter Class are judged on.
- A. Type (breed type)
Conformation
Quality
Substance (muscling or condition)
Soundness (way of going)
Color
Sex character
- S. DET pg 129 1010/4

Resume Open Questions

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28. Q. What is the proper name of the structure of the uterus which is being described? It is composed of two sheets of tissue – one longitudinal and one circular, it is the middle layer, and it is responsible for powerful contractions of the uterus at birth of the foal.
- A. Myometrium
- S. HIH 910-3 480/4
29. Q. What is the minimum distance a manure pile should be located from a well used for drinking water.
- A. A minimum of 100 feet
- S. HIH 360-2 920/4
30. Q. Which premolars are present as permanent teeth only?
- A. Wolf teeth
- S. HIH 405-1 430/4
31. Q. FSH (Follicle Stimulating Hormone) exerts its effect in stimulating spermatogenesis in the stallion by acting on what cells in the testes?
- A. Sertoli cells
- S. YLM 327-1 520/5

Last Question of the Round

32. Q. What plant causes the disease “trembles” in horses and “milk sickness” in people?
- A. White snakeroot
- S. Lewis pg 320 770/4