

2006 Eastern National 4-H Horse Bowl

Round Six

One-On-One

1. C1 Q. What is the name of the procedure used to “temporarily” anesthetize a nerve to localize the site of pain for lameness diagnosis?
- A. A nerve block (not nerving)
- S. Kainer plate 22, Lewis pg 397 420/3
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2. C2 Q. What hormone would be influencing the cervix when it is flaccid, very pink and vascular, and produces a thin watery mucous?
- A. Estrogen
- S. HIH 910-3 480/3
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3. C3 Q. What arteries are the first to branch off of the aorta and supply blood to the heart muscle?
- A. Coronary arteries
- S. Kainer plate 58 440/3
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4. C4 Q. In “general terms” what does the horse’s adrenal gland produce?
- A. Hormones
- S. DET pg 4, Evans pg 127 490/3

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| 5. C1 | Q. | Which draft breed has a gestation length 15 to 20 days longer than any other draft mare? | |
| | A. | Belgian | |
| | S. | Lewis 242 | 0200/4 |
| 6. C2 | Q. | Considering the stomach, small intestine and large intestine, where do feeds being processed by the horse spend the least period of time? | |
| | A. | Stomach (15 minutes) | |
| | S. | YLM 203-1 | 430/4 |
| 7. C3 | Q. | Alkaloid poisoning primarily blocks nerve impulses to what body tissue? | |
| | A. | Muscles | |
| | S. | Lewis pg 340 | 770/4 |
| 8. C4 | Q. | Ossification of the cartilages of the distal phalanx is called what? | |
| | A. | Side bone | |
| | S. | Kainer Plate 12 | 810/3 |

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| 9. C1 | Q. | Bacteria in the horse's digestive tract have enzymes capable of converting cellulose into what digestible product. | |
| | A. | VFAs – volatile fatty acids | |
| | S. | Lewis pg 17 | 720/3 |
| 10. C2 | Q. | What is the vector for the equine disease caused by the bacteria <u>Borrelia buurgdorferi</u> , also known as Lyme disease? | |
| | A. | Ticks | |
| | S. | HIH 655-1 | 840/3 |
| 11. C3 | Q. | What fat soluble vitamin is considered necessary for growth and development of a strong hoof wall? | |
| | A. | Vitamin A | |
| | S. | HIH 505-2 | 740/3 |
| 12. C4 | Q. | What are added to horseshoes to help take the stress off of the nails and stabilize the shoe on the foot? | |
| | A. | Clips | |
| | S. | YLM 231-2, HIH 515-2 | 900/3 |

End One-On-One

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Begin Open Questions

13. Q. When dividing horses into classes for nutritional management what nutritional class would weanlings and yearlings be placed in?
- A. Growing
- S. YLM 103-1 700/3
14. Q. Identify one plant that causes acute alkaloid poisoning.
- A. Larkspur (poison weed); monkshood (Aconite); poison, European or spotted hemlock; water hemlock; yew; death camas
- S. Lewis pg 334 770/4

Toss Up – Bonus Attached

15. Q. (Two Part) When handling a horse that experiences a fearful or objectionable situation and you remove the option of flight, what two possible choices does the horse have?
- A. Fight or submit
- S. Lewis pg 376 910/4

Bonus Question

16. Q. (Bonus question) Identify where each of the three serous membranes called the pleura, peritoneum and pericardium found in the horse?
- A. Thoracic cavity – pleura
Abdominal cavity (and the pelvic cavity) – peritoneum
Surrounding the heart – pericardial
- S. Kainer plate 56, DET pg 209, 215 440/4

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Resume Open Questions

17. Q. What is the specific name of the type of western chaps that extend slightly beyond the knee, but do not cover the rider's shins?
- A. Chinks (do not accept half chaps – they cover the ankle and shin – chinks go from the thigh to the knee)
- S. DET pg 55 1060/3
18. Q. Which spavin would be defined as an inflammation of the intertarsal and tarsometatarsal joints resulting in excess bone formation causing lameness that often stops if the joints fuse?
- A. Bone Spavin (Jack Spavin)
- S. Evans pg 165, Kainer plate 32 620/4
19. Q. There are numerous disadvantages to using straw as a bedding, but what is the major safety issue with straw?
- A. It is highly combustible – fire hazard
- S. HIH 30-1 920/3

Toss Up – Bonus Attached

20. Q. What two minerals are necessary in the horse's diet for the regulation of all body fluids, maintenance of acid-base balance, and nerve impulse conduction?
- A. Sodium and chloride
- S. Lewis pg 25 750/3

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25. Q. What is the single most important factor in storing grain?
- A. Moisture or safe storage (accept either)
- S. Lewis pg 77 700/3

Toss Up – Bonus Attached

26. Q. (Two Part) Name two of the body's organ systems that would be affected by cardiac glycoside poisoning?
- A. Cardiac, digestive, respiratory, digestive and nervous
- S. Lewis pg 339 770/3

Bonus

27. Q. (Bonus Question) In qualitative gene action what are the three primary types of action that effect the expression of the trait?
- A. Dominance, co-dominance and partial dominance
- S. HIH 1020-2 550/4

Resume Open Questions

28. Q. Name the type of shoe that is used to elevate the heels of a horse that is confined to stall rest?
- A. Patten Shoe
- S. YLM 231-3 900/4

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29. Q. In describing a horse what would a hat rack be?
- A. An emaciated horse – very thin
- S. DET pg 130 700/3
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30. Q. In natural conditions, horses demonstrate few vices. What is it about stalls and stabling that promotes the development of these vices?
- A. Boredom
- S. HIH 320-1 930/3
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31. Q. What does the term teratogenic describe in regard to plant poisoning?
- A. Compounds that cross the placenta and cause physical defects in the fetus
- S. Lewis pg 332 770/4

Last Question of the Round

32. Q. Identify this bridle from the following description – double reined with the snaffle and curb bit separated, commonly used for 3 and 5 gaited horses.
- A. Weymouth bridle (Weymouth Set, Weymouth Curb), full bridle or double bridle
- S. HIH 1100-10, IDET 290. 1000/4