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

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

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

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
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
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 *Borrelia burgdorferi*, also known as Lymes 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
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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Bonus

21. Q. (Bonus question) Name four things that can be done to help a horse with navicular disease.

A. - Rest/restricted activity
   Bar shoe (egg bar) to support the rear of the hoof
   Rocker toe
   Raise the heel with wedges
   Improve blood circulation – medication Isoxsuprine
   Nerving – low not high
   Pain control

S. HIH 540-3 815/3

Resume Open Questions

22. Q. In training, giving a reward when the horse performs the desired act or behavior is termed what?

A. Positive reinforcement

S. DET pg 218 900/3

23. Q. Visual inspection is the most common method of evaluating forage. What is the most accurate method to assess the nutrient composition of forage?

A. Chemical analysis

S. HIH 750-5 700/3

24. Q. Slow eating, quidding, swelling of the face, draining tracts and nasal discharge can be indications of what dental problem?

A. Tooth root infection (accept just infection)

S. HIH 405-3 430-4
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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

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

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