



## 2006 Eastern National 4-H Horse Bowl Round Seven

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|-------|----|--|-------|
| 5. C1 | Q. | What is the most toxic part of the water hemlock?  |       |
|       | A. | Roots  |       |
|       | S. | Lewis pg 343   | 770/4 |
| 6. C2 | Q. | What are the structural components of carbohydrates?   |       |
|       | A. | Simple sugars  |       |
|       | S. | Lewis pg 16  | 730/4 |
| 7. C3 | Q. | What is the proper term for the condition found when lymph fluid accumulates in the tissues of the leg, commonly called “stocking up”? |       |
|       | A. | Edema or leg edema   |       |
|       | S. | Kainer plate 64, Evans pg 113, IDET 89.  | 840/4 |
| 8. C4 | Q. | What metal alloy can be used for horseshoes that maintains the light weight of aluminum, but has the durability of steel               |       |
|       | A. | Titanium   |       |
|       | S. | HIH 515-4  | 900/4 |

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|--------|----|--|-------|
| 9. C1  | Q. | What is the primary event that signals the mare has entered the second stage of labor?   |       |
|        | A. | Mare's water breaks – allantoic fluid  |       |
|        | S. | Kainer Plate 73  | 510/3 |
| 10. C2 | Q. | What term would be defined by the premature expulsion of a fetus before it's is capable of living independently.   |       |
|        | A. | Abortion   |       |
|        | S. | DET pg 1   | 500/3 |
| 11. C3 | Q. | Name one of the three main categories of plant toxins that cause sudden death?   |       |
|        | A. | Cyanogenic glycoside (cyanide)<br>Cardiac glycosides<br>Alkaloids  |       |
|        | S. | Lewis pg 334   | 770/4 |
| 12. C4 | Q. | What classification of shoeing would be used to describe the application of a horseshoe to support or protect a weak portion of the hoof to help prevent pain? |       |
|        | A. | Therapeutic shoeing  |       |
|        | S. | YLM 231-1  | 900/3 |

## End One-On-One

## **2006 Eastern National 4-H Horse Bowl Round Seven**

### **Begin Open Questions**

13. Q. What is the reason for putting a 6 inch wide board at the top of a wire fence?
- A. To allow the horse to see the fence better and to prevent damage to the horse and the fence.
- S. HIH 350-3 920/3
14. Q. What driving vehicle is being described – two-wheeled, low, closed body, drawn by a single horse or pony, and its name contains the name of another four legged friend of man?
- A. Dogcart
- S. DET pg 83 1050/3

### **Toss Up – Bonus Attached**

15. Q. (Two Part) The meninges are three membranes covering what two structures?
- A. Brain and spinal cord
- S. Kainer Plate 81 420-3

### **Bonus Question**

16. Q. (Bonus Question) Name the four major parts of the equine uterus.
- A. Cervix, body, and two horns
- S. Kainer Plate 70 480/3

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### **Resume Open Questions**

17. Q. Drainage of a potential site should allow water to drain away from buildings, rings, and training areas. To prevent muddy conditions or erosion, what should the slope of the land be?
- A. Two to six percent
- S. HIH 3201-2 920/4
18. Q. In equine competition, what is a kur?
- A. A musical freestyle ride in dressage
- S. DET pg 162 1010/3
19. Q. What term would be used to describe a horse that is cantering on different leads front and rear?
- A. Disunited (also accept cross firing or cross canter)
- S. DET pg 82 640/4

### **Toss Up – Bonus Attached**

20. Q. (Two part) Forages are important for horses for the nutrients they provide. Name a physiological function and a psychological function forages provide to the horse.
- A. Physiological - Increase muscle tone and activity of the gastrointestinal tract.  
Psychological – Decrease stable vices
- S. Lewis pg 63 700/4

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#### Bonus

21. Q. (Bonus Question) Name or describe three sites where you can take the pulse of your horse.
- A. Facial artery – ventral border of the mandible – shallow groove on the lower border of the jaw behind the last cheek tooth  
Transverse facial artery – behind and below the eye, just below the zygomatic arch  
Lateral dorsal metatarsal artery – hind limb, outside, in groove between the cannon bone and splint bone  
Digital arteries – laterally and medially along deep flexor tendon at the pastern – back of the fetlock joint  
Median artery - Inside the elbow of the foreleg  
**(Do not accept tail artery – can find no references-used for bovine only)**
- S. Kainer plate 62 440/4

#### Resume Open Questions

22. Q. What is the racing term used for administering an illegal drug to a horse to increase or decrease its speed or performance?
- A. Doping
- S. DET pg 84 1040/3
23. Q. As the digestibility of a feed increases, water consumption is decreased. Why?
- A. The amount of water excreted in feces is decreased.
- S. Lewis pg 4 700/4
24. Q. (Two Part) Name two areas to which a non-leverage bit like the snaffle applies pressure.
- A. Corners of the mouth, tongue, and bars. (Also accept roof of the mouth)
- S. HIH 1100-8 1000/3

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25. Q. Ingestion of wild onions, red maple leaves, or moldy sweet clover can result in what problem?
- A. Anemia
- S. Lewis pg 330 770/4

**Toss Up – Bonus Attached**

26. Q. (Two Part) What are the two most effective stimuli that can be used in horse training?
- A. Hearing – voice commands  
Touch – pressure – bit, legs, seat etc
- S. HIH 1240-2 910/4

**Bonus**

27. Q. (Bonus question) What are three major problems with wooden floors?
- A. Slippery when wet  
Prone to attracting rodents by creating an environment for urine to accumulate and feed to fall through the cracks.  
Splinters  
Difficult to disinfect  
Need to be periodically replaced
- S. HIH 320–3 920/3

**Resume Open Questions**

28. Q. Of the six basic classes of nutrients – water, protein, carbohydrates, fat, mineral and vitamins – which one of these has only one purpose - being required for body metabolism?
- A. Vitamins
- S. Lewis pg 3 740/3

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29. Q. Harsh shampoos can create a dry skin. What else does a harsh shampoo make the skin more susceptible to?
- A. More susceptible to microbial (bacterial and fungal) and parasite problems. (Accept either as a correct answer)
- S. Lewis pg 180 860/4
30. Q. Why is the phenotype of the horse not always representative of the horse's genotype?
- A. The effects of recessive genes may not be expressed in the phenotype (Also accept environmental factors)
- S. HIH 1060-2 550/4
31. Q. What is the characteristic feature of "polo" shoes that gives them better traction and enables the foot to roll over faster?
- A. The inside rim of the web is raised higher than the outside edge
- S. Evans pg 737 900/4

**Last Question of the Round**

32. Q. Why is properly composted manure and bedding safe to spread on pastures without worry about the spread of parasites, pathogenic bacteria, or weed seeds?
- A. Composted manure will reach a temperature that will destroy these problems.
- S. HIH 360-3 920/5