

2005 Eastern National 4-H Horse Bowl Round Seven

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| 5. C1 | Q. | What is the most damaging condition to the quality of stored hay? | |
| | A. | Moisture | |
| | S. | HHH 710-5 | 710/4 |
| 6. C2 | Q. | Which parasite of the horse - whose larva do not migrate through the body tissues - will cause intermittent to profuse diarrhea and low grade signs of colic? | |
| | A. | Small strongyles | |
| | S. | Lewis pg 156 | 880/4 |
| 7. C3 | Q. | What two things generate the sounds heard from the horse's heart? | |
| | A. | The flow of blood and the closing of the heart valves | |
| | S. | Kainer plate 58 | 440/4 |
| 8. C4 | Q. | Where in the horse's digestive system does maximum water absorption occur? | |
| | A. | Small Colon. | |
| | S. | AYHC-YLM-ADV 303-3 L | 430/4 |

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| 9. C1 | Q. | Vitamin K is essential to what important physiologic function in the horse's body? | |
| | A. | Coagulation or clotting | |
| | S. | Lewis pg 51 | 440/3 |
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| 10. C2 | Q. | What important function does sweating perform for the horse? | |
| | A. | It dissipates heat - it has a cooling effect on the surface of the body when the sweat evaporates. | |
| | S. | Evans pg 129, Lewis pg 199 | 460/3 |
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| 11. C3 | Q. | As a horse ages the shape of the incisors changes from oval to what shape? | |
| | A. | Triangular | |
| | S. | Kainer plate 49, Evans pg 93 | 430/4 |
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| 12. C4 | Q. | After spermatogenesis occurs in the seminiferous tubules, where in the stallion's reproductive tract do the sperm go for maturation and storage? | |
| | A. | Epididymis | |
| | S. | HHH 920-4 | 500/3 |

End One-On-One

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Begin Open Questions

13. Q. What U.S. President was involved in the acquisition of foundation stock that led to the establishment of the Arabian breed registry in the United States?
- A. Ulysses S. Grant
- S. HIH 150-1 200/3
14. Q. The hindgut of the horse is a site of active microbial digestion of fibrous feeds into what primary energy source for the horse?
- A. Volatile fatty acids (VFA)
- S. HIH 710-2 430-3

Toss Up – Bonus Attached

15. Q. Name the two major vessels that carry blood from the heart to the abdomen and return blood from the abdomen back to the heart.
- A. Aorta and the caudal vena cava
- S. Kainer plate 57 440/4

Bonus Question

16. Q. Bonus question: Sebum is produced by the skin and coats each hair. Name four functions of sebum.
- A. 1 – Causes hair to lie flat
2 – Gives the hair coat a shine
3 – Helps the hair repel water
4 – Lubricates the skin
5 – Inhibits the growth of microorganisms
6 – Increases the adherence of dirt and dust to the hair (absorbs sweat and repels insects)
- S. Lewis pg 179 460/4

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Resume Open Questions

17. Q. How many furlongs are run in the third Triple Crown race held at Belmont?
- A. 12 furlongs
- S. DET pg 27 1040/3
18. Q. What is an inflammation or infection of the lining of the uterus called?
- A. Endometritis
- S. DET pg 92 845/4
19. Q. What is the name for chemical substances that stimulate and regulate physiological processes?
- A. Hormones
- S. Evans pg 126, DET pg 143 490/3

Toss Up – Bonus Attached

20. Q. Name the two types of gait defects classified as supporting leg interferences.
- A. Brushing and striking
- S. Evans pg 179 600/3

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Bonus

21. Q. Bonus question: There are four classes of horses based upon their nutritional class or status in life. Name the classes.
- A. Growing Horse (Weanlings & Yearlings)
Mature Idle (accept mature)
Producing (Late Gestation Mares & Lactating Mares)
Working
- S. AYHC-YLM-B 103-1 L 710/3

Resume Open Questions

22. Q. During the winter months what would be a proper term to classify the natural status of the mare's reproductive cycle?
- A. Anestrus
- S. HIH 910-5 500/3
23. Q. What factor at harvest would cause the baled hay to become moldy, and will generate heat that will cause a loss of vitamin content, decrease protein digestibility and possibly lead to spontaneous combustion.
- A. Baling the hay too wet – high moisture content – greater than 20%
- S. AYHC-YLM-ADV 337-2 L, Lewis pg 115, HIH 750-4 700/4
24. Q. What portion of the hoof wall is the thickest to give it more strength at the point of greatest wear?
- A. Toe
- S. AYHC-YLM-BEG 106-1 L 460/3

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25. Q. Feeding forages from the ground results in significant losses primarily from loss of the leaves. What other problem causes a portion of the feed to be rendered unpalatable?
- A. Fecal and urine contamination, mud/dirt
- S. Lewis pg 148 710/3

Toss Up – Bonus Attached

26. Q. The horse will be more likely to experience a salt deficiency as a result of what two physiological activities?
- A. Lactation and sweating
- S. Lewis pg 27 750/3

Bonus

27. Q. Bonus question: What are four physical signs the mare will exhibit when preparing to foal within the next five hours?
- A. Leaves herd/isolation Frequent urination
Stops eating Sweating
Tail switching Water breaks
Restless (paces, gets up & down repeatedly)
- S. Lewis pg 245 500/4

Resume Open Questions

28. Q. What is the name for the conformation defect where the maxillary incisors are prominent and buck-toothed and the mandible is receded?
- A. Parrot Mouth or overshot jaw
- S. Evans pg 144, DET pg 204 620/2

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29. Q. What is the primary function of the myometrium at the birth of the foal?
- A. It is responsible for the powerful contractions which expels the foal at birth?
- S. HIH 910-3 500/4
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30. Q. What conformation defect may lead to the development of bone spavin and when a horse with this conformation is observed from the rear, the hind limbs are base narrow to the hocks and base wide from the hocks to the feet?
- A. Cow-hocked
- S. Kainer plate 40 600/4
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31. Q. What term would be used to describe the protrusion of the intestines though the abdominal wall?
- A. Hernia
- S. DET pg 139 805/3

Last Question of the Round

32. Q. What is the name of the structure that allows foals to eat without permitting the dam to have access to the feed?
- A. Creep Feeder
- S. DET pg 72, Lewis pg 268-9 710/3