

**2005 Eastern National 4-H Horse Bowl
Round Eight**

9. C1 Q. The endometrium is the mucosal lining of what organ?
 A. Uterus
 S. Kainer plate 70, DET pg 92. 480/3
10. C2 Q. Name two things the sensitive structures of the hoof have that
 the insensitive do not.
 A. Blood vessels and nerves
 S. AYHC-YLM-BEG 106-1 L 460/4
11. C3 Q. Epinephrine is a very important hormone for the horse in stress
 situations and is produced by which organ?
 A. The adrenal gland.
 S. DET pg 98 490/4
12. C4 Q. What event occurs for the foal at 4 to 6 months of age that is
 stressful for both the mare and foal and a time when the foal's
 growth rate slows?
 A. Weaning
 S. AYHC-YLM-BEG 112-2 L 500/3

End One-On-One

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Resume Open Questions

17. Q. The term feral refers to an animals living in a wild or non-domesticated situation. What is the name used when this is applied to a donkey?
- A. Burro
- S. Evans pg 77, Lewis 389 0200/3
18. Q. Which pair of hooves is narrower and more pointed?
- A. Hind foot
- S. Kainer plate 24 460/2
19. Q. For a fetus to be considered aborted the fetus is prematurely presented prior to the completion of how many days of the gestation cycle of the mare?
- A. 300 days
- S. Evans pg 425 500/4

Toss Up – Bonus Attached

20. Q. The measure of how much blood the heart can pump per minute is cardiac output. What two factors determine this value?
- A. Heart rate and stroke volume.
- S. AYHC-YLM – INT 225-2 L 440/3

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Bonus

21. Q. Bonus question: Starting at the larynx name the airways in the order you would find them in the equine respiratory system.
- A. Larynx, trachea, bronchi, bronchioles (also accept respiratory bronchioles and terminal bronchioles for bronchiole, alveoli)
- S. Kainer plate 67 450/4

Resume Open Questions

22. Q. Each breed organization has defined the ideal horse for its breed. What do we call the arrangement of muscle, bone and other body tissue used to judge this ideal horse?
- A. Conformation
- S. AYHC-YLM-Adv 323-1 L 600/2
23. Q. In what two categories of muscle are their contractions under involuntary control?
- A. Smooth muscle and cardiac muscle
- S. AYHC-YLM-ADV 325-2 L 410/3
24. Q. The cannon bone, long pastern and proximal sesamoid bones make up what joint?
- A. Fetlock joint
- S. Kainer plate 12, DET pg 247 400/2

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25. Q. Most of the hair on the horse is shed twice a year in the spring and fall. Name three areas of hair on the horse's body that never shed.
- A. Mane, tail, eyelashes and tactile hair of the muzzle
- S. Evans pg 129 460/3

Toss Up – Bonus Attached

26. Q. In both the male and female horse the pituitary gland is stimulated to release what two gonadotropic hormones?
- A. FSH (follicle releasing hormone) and LH (leutenizing hormone)
- S. HIH 910-6 480/3

Bonus

27. Q. Bonus question: The horse has 205 bones classified in four categories. Name them and give an example of one bone for each of these categories.
- A. Long – femur, radius etc
Short – bones of the tarsus, carpus or sesamoids
Flat – Skull or ribs
Irregular – vertebrae
- S. Evans pg 90 400/3

Resume Open Questions

28. Q. The Standardbred performs two gaits- the pace and the trot. Which gait is faster?
- A. Pace
- S. Evans pg 175 620/2

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29. Q. What is the term for an inflammation of the periosteum on the anterior surface of the fetlock?
- A. Osselets
- S. Evans pg 161, Lewis pg 398 800/3
30. Q. What is the difference between plasma and serum?
- A. Plasma is the fluid that red blood cells are suspended in and serum is the fluid that separates from red blood cells after they coagulate. (Plasma has fibrinogen that is consumed in the clotting process and not found in serum).
- S. Lewis pg 403 440/4
31. Q. In the pregnant mare, the first stages of foaling can often mimic what condition?
- A. Colic
- S. Lewis pg 245 500/3

Last Question of the Round

32. Q. To see objects that are far away, what must the horse do?
- A. Lower its head
- S. HIH 1220-1 420/3