

2006 New York State Senior 4-H Horse Bowl Round Seven

One-On-One

1. C1 Q. What is the mucus membrane that lines the eyelids and covers part of the eyeball called?
A. Conjunctiva
S. DET pg 67 420/3

2. C2 Q. What is the function of the pyloric sphincter muscle?
A. Controls the release of stomach contents into the duodenum
S. Kainer plate 51 430/3

3. C3 Q. What disc shaped structures in the horse's blood are mainly responsible for coagulation?
A. Platelets or thrombocytes
S. DET 214, Kainer Plate 63 440/3

4. C4 Q. What structure connects the kidney to the bladder?
A. Ureter
S. Kainer plate 68 470/3

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5. C1 Q. What is the most damaging condition to the quality of stored hay?
- A. Moisture.
- S. HIH 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. HIH 920-4 500/3

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13. C1 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. C2 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
15. C3 Q. What term would be used to describe the protrusion of the intestines through the abdominal wall?
- A. Hernia.
- S. DET pg 139 805/3
16. C4 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

End One-On-One

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Begin 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
20. 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

Toss Up – Bonus Attached

21. 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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Toss Up – Bonus Attached

26. 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

27. 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

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

Last Question of the Round

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