

**2006 New York State 4-H Horse Bowl
Round Three**

One-On-One

1. C1 Q. What fluid is secreted by the gland of the third eyelid and the lacrimal gland?

A. Tears or lacrimal fluid

S. Kainer plate 45 420/2

2. C2 Q. At what age do the permanent 2nd or intermediate incisors erupt?

A. 3 1/2 years

S. HIH 240-1 430/2

3. C3 Q. What conformation defect places heavy strain on the long plantar ligament of the hock and predisposes the horse to curb?

A. Sickie hocks

S. Kainer plate 40 600/3

4. C4 Q. In the horse's diet which nutrient is the primary source of energy?

A. Carbohydrates (fat is a source, but not the primary)

S. Evans pg 209 760/2

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5. C1 Q. What is the most important conformational factor in determining the ratio of the top line to the bottom line of the neck?
- A. Slope of the shoulder
- S. HIH 220-5 800/4
6. C2 Q. What is the name of the fluid found in the tissues causing edema when a horse is “stocking up”?
- A. Lymph
- S. Kainer plate 64, Evans pg 113. 825/5
7. C3 Q. What is being checked when the time is measured for the return of normal color to the gum after pressure by the finger to the gum is removed?
- A. Capillary refill time (CRT)
- S. Lewis pg 384, DET pg 47 870/2
8. C4 Q. Two bits are used in a full or Weymouth bridle. What is the small snaffle bit in this bridle called?
- A. Bradoon
- S. HIH 1100-10 1000/3

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9. C1 Q. The olecranon tuberosity is part of which bone of the horse?
A. Ulna
S. Kainer plate 10 400/3
10. C2 Q. Name the two breeds that were used to create the synthetic breed the Americana.
A. Hackney and Shetland pony
S. Evans pg 66 0200/2
11. C3 Q. Body condition scoring is an estimate of stored energy found on the horse in what form?
A. Fat
S. HIH 720-3 710-2
12. C4 Q. What is the proper name (genus and species) of the parasite of the horse that has larvae whose migration causes potential thrombi of the cranial mesenteric artery and emboli that can cause colic?
A. Strongylus vulgaris
S. Evans pg 623-4, Kainer plate 60 880/3

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13. C1 Q. A silver dapple color is unique to what breed?
A. Shetland Pony (Rocky Mountain Horse or miniature horse are also correct, but not in the references)
S. Evans pg 59 0300/2
14. C2 Q. In what country were the Hanoverian, Trakehner and Holsteiner developed?
A. Germany
S. Evans 74 200/1
15. C3 Q. What are the two primary functions the testes perform in the stallion's reproductive system?
A. 1- Production of spermatozoa (spermatogenesis)
2 - Production of the male sex hormone – testosterone
S. AYHC-YLM-ADV 327-1 L 480/3
16. C4 Q. What breed is described as a small, general purpose mountain horse, stout in body type, often resembles the Belgian, mostly because their coat is a light shade of chestnut with flaxen mane and tail and originates in Austria?
A. The Haflinger
S. Evans, p. 74 0200/2

End One-On-One

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Begin Open Questions

17. Q. Joints are stabilized by tough bands of fibrous tissue known as ligaments and tendons. What is the difference in the attachments between these two structures?
- A. Tendons attach muscle to bone and ligaments attach bone to bone
- S. Evans page 90, DET pg 168 & 264 410/1
18. Q. The modern horse we know as Equus originated in North America and migrated throughout the rest of the world during what age of time?
- A. The ice age, using the land bridges formed
- S. Evans pg 4 0100/2
19. Q. How long in feet is the average adult horse's small intestine?
- A. 50-70 feet (accept anything in that range)
- S. HIH 710-2 fig 1; Lewis, 4 430/3
20. Q. A smooth mouth occurs at what age?
- A. 11 years of age (accept 12 years per DET)
- S. HIH 240-3, AYHC-YLM INT 205-2 L, DET pg 249 435/3

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Toss Up – Bonus Attached

21. Q. The ideal throatlatch on any horse should be trim and refined so that it does not restrict the flow of what two items when the poll is flexed?
- A. Air and blood
- S. HIH 220-5 0600/3

Bonus

22. Q. Bonus question: What are the three prerequisites house flies and stable flies have for successful completion of their life cycle?
- A. 1 – Breeding materials – manure or other organic materials
2 – Moisture
3 – Warmth
- S. AYHC-YLM-ADV 300-1 L 880/2

Resume Open Questions

23. Q. When referring to equine tack, what is Happy Mouth?
- A. A soft apple flavored rubber bit or mouthpiece.
- S. HIH 1100-10 1000/2
24. Q. What type of English saddle is being described – deep seat, straight and longer flap, a longer stirrup and optimum leg contact with the horse?
- A. Dressage
- S. HIH 1100-3 1000/3

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25. Q. What is the science of the study of hormones and their actions called?
- A. Endocrinology
- S. AYHC-YLM-ADV 326-1 500/2

Toss Up – Bonus Attached

26. Q. What are the two most important dietary components in feedstuffs that provide the horse with energy?
- A. Carbohydrates and fat
- S. HIH 820-1 760/3

Bonus

27. Q. Bonus question: Name five of the ten categories of behavior described for the horse
- A. 1 – Contactual 6 – Et-epimeletic
 2 – Ingestive 7 – Allelomimetic
 3 – Eliminative 8 – Investigative
 4 – Sexual 9 – Agonistic
 5 – Epimeletic 10 – Dominance
- S. Evans pgs 673 – 7 0900/2

Resume Open Questions

28. Q. For a horse to be considered a true white what are three distinguishing characteristics?
- A. Born white, snow white hair, pink skin and brown, hazel or blue eyes
- S. HIH 140-2 0300/3

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29. Q. In judging the conformation of a horse, the length of the underline of the body is compared to the length of what other structure?
- A. The back
- S. HIH 220-6 600/2

Last Question of the Round

30. Q. In order to breed the mare at an optimal time many large breeding programs use a stallion that is not intended to be used as the stud for the mare to see if a mare is receptive to breeding. What is the term for this stallion?
- A. Teaser
- S. AYHC-YLM-ADV 336-1 L, Lewis pg 406 500/3