

**2009 NYS 4-H Horse Bowl  
Sr. Round 7**

**One-On-One**

1. C1 Q. What is bradycardia?  
A. An abnormally slow heart rate  
S. DET p. 37 440/3
2. C2 Q. The following horses are part of the history of what breed...  
Bourbon King, Wing Commander and Denmark?  
A. American Saddlebred horse  
S. HIH 162-2 200/3
3. C3 Q. If you are “fuzztail running”, what are you doing?  
A. Herding and catching wild horses  
S. DET p. 116 920/4
4. C4 Q. In the zoological classification what family includes the horse?  
A. Equidae  
S. Evans p.13 100/2
5. C1 Q. What is the only function of the vitamin D in the horse’s body?  
A. Maintaining plasma calcium levels – by regulating calcium absorption  
S. Lewis p. 48, Evans p. 221 740/3
6. C2 Q. In the history of Spain during the reign of Queen Isabella, what current breed of horses was known as Golden Isabellas?  
A. Palomino  
S. Evans p.50 200/3

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7. C3 Q. What sex-linked disease results in a deficiency of clotting factor VIII?
- A. Hemophilia A (also accept Hemophilia)
- S. Evans p.511                      550/3
8. C4 Q. In show jumping, a “combination obstacle” consists of two or more separate jumps that are numbered and lettered. For example 4A and 4B would be used to designate the two jumps in a combination obstacle. If you are judging this class, would the the jumps 4A and 4B **each** receive a score or would they be judged as one obstacle?
- A. Judged as one obstacle
- S. DET p.62                              1075/3
9. C1 Q. What is deglutition?
- A. The act of swallowing
- S. DET p.78                              430/4
10. C2 Q. What breed of horse is primarily affected by the genetic lethal Combined Immunodeficiency Disease?
- A. Arabians (and part Arabians)
- S. HIH 1060-4                              550/3
11. C3 Q. Vitamin K is necessary for what purpose?
- A. Production of blood clotting factors
- S. Lewis p. 50                              740/3



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16. Q. On what type of land is it suitable to spread manure that has not been composted?
- A. Crop land, or other ungrazed, vegetated areas
- S. HIH 365-6 920/4

**Toss Up – Bonus Attached**

17. Q. There are 6 basic modifications of black. Name four of them.
- A. Bay, seal brown, buckskin, dunn, grulla and perlino
- S. Evans p.473 550/4

**Bonus Question**

18. Q. Name **four** things that induce a higher rate of hoof growth.
- A. Warm temperatures  
Irritation or injury to sensitive structures  
Increased exercise or wear  
Optimum level of feed intake (proper nutrition)  
High heart rate  
Age of animal (younger - grows faster)  
Stimulation of sensitive structures by massage  
Counter-irritants or blisters  
(Moisture not a correct answer – increased moisture only maintains quality, does not increase growth)  
(Vitamin/mineral supplements have never been proven to increase growth)
- S. YLM 206-2L, HIH 505-6 480/4



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**Toss Up – Bonus Attached**

24. Q. (Two part) Your horse has just sustained a laceration to the leg and is bleeding profusely. Your veterinarian has been contacted and is coming. What are the **two** most important things you must do prior to the arrival of your veterinarian?
- A. Control the bleeding  
Keep the wound clean
- S. Evans p. 609 800/3

**Bonus Question**

25. Q. Name **three** of the five types of **white blood cells** found in the horse's blood.
- A. Eosinophils            Monocytes  
Neutrophils            Lymphocytes  
Basophils                (also accept mast cells)
- S. DET 293 440/4

**Resume Open Questions**

26. Q. The angle of the slope of the shoulder is essential to the overall balance of the horse. As the slope of the shoulder becomes straighter, what affect does this have on the length of the back?
- A. The back gets longer – the top line becomes longer
- S. YLM A323-2L 420/3
27. Q. (Two Part) Name **two** types of hitches used to secure a load on a pack saddle.
- A. Single diamond, double diamond, half diamond, triple diamond, Squaw or Arizona
- S. HIH 1125-1 1020/3

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28. Q. Why is a five diamond V-mesh wire fence considered to be the safest wire fencing to be used with **all** types of horse?
- A. The close weave (small openings) keeps even foals from Catching their foot in it
- S. HIH 350-3                      920/3
29. Q. During pregnancy what structure in the mare protects the fetus from contamination and infection by serving as a barrier between the vagina and the body of the uterus?
- A. The cervix
- S. Evans p. 321, HIH 910-3                      510/3

**Last Question of the Round**

30. Q. “Airs above the ground” refers to any of the high-schooled movements in which the horse’s forelegs or both the forelegs and hind legs are off the ground. Which legs are off the ground in the movements Capriole and Ballatade?
- A. Both fore and hind legs
- S. DET p. 5, 22, 48, 168                      1090/4