







**2007 NYS 4-H Horse Bowl  
Round Eight**

**Begin Open Questions**

13. Q. What functions to transport nutrients, waste products and regulatory substances to the brain and the spinal cord?
- A. CSF – cerebrospinal fluid
- S. Kainer Plate 81 420-3
14. Q. The biggest mistake in most barns is that they are built for human comfort and not equine health. What is the primary fault found in these barns?
- A. Poor ventilation
- S. Evans pg 773 920/3
15. Q. The Kimberwicke bit is considered a leverage bit. How is it different from a typical leverage bit like a curb bit?
- A. The Kimberwicke does not have shanks. It also uses slots on top of the rings for attachment of a curb chain to provide leverage.
- S. IDET 161, HIH 1100-9 1000/4
16. Q. What is the proper term for the fluid that separates from red blood cells after they coagulate?
- A. Serum
- S. Lewis pg 403 440/4
17. Q. What term is used to describe a horse that can both pace and trot with good speed?
- A. Double-gaited

**2007 NYS 4-H Horse Bowl  
Round Eight**

S. DET pg 84 1040/4

**Toss Up – Bonus Attached**

18 Q. (Two Part) What is the term used to describe a horse where all of the permanent incisors are in wear and what is the minimum age of the horse?

A. Full mouth, 5 years old

S. YLM 205-2 430/4

**Bonus Question**

19 Q. (Bonus Question) List four things that you might observe in your pregnant mare that would indicate she is starting the first stage of labor.

A. Seeks isolation from other horses  
Stops eating  
Becomes restless – pacing, lies down and gets up repeatedly  
Tail swishing  
Sweating  
Frequent urination  
Wax on the end of the teats may fall off and milk starts to drip

S. Lewis pg 245, Evans pg 417 510/4

**2007 NYS 4-H Horse Bowl  
Round Eight**

**Resume Open Questions**

- 20 Q. When fencing horses, what is the most effective way to use an electric fence?
- A. In conjunction with another fence using the electric fence at the top of the fence to keep the horses off of the other fence.
- S. Evans pg 766 920/4
- 21 Q. Identify one plant that can cause cardiac glycoside poisoning.
- A. Milkweed; foxglove; oleander; yellow oleander; be-still or lucky nut tree; lily of the valley; dogbane or Indian hemp
- S. Lewis pg 337 - 339 770/4

**2007 NYS 4-H Horse Bowl  
Round Eight**

22 Q. Shaping or dressing the hoof is done to remove any outward distortion of the hoof wall before applying the shoe. What is the maximum amount of hoof wall that can be removed without excessively thinning and weakening the wall?

A. One half of the thickness of the wall.

S. HIH 535-4 900/4

23 Q. Why would you choose to use a dropped noseband for your horse?

A. To keep the mouth closed

S. DET pg 86 1000/3

**Toss Up – Bonus Attached**

24 Q. (Two part) What are the two primary purposes of the epididymis?

A. Storage and maturation of the sperm

S. HIH 920-4, IDET 97 480/3

**2007 NYS 4-H Horse Bowl  
Round Eight**

**Bonus**

- 25 Q. (Bonus question) List four things a farrier should observe before removing and replacing the shoes on your horse.
- A. 1. Observe your horse in motion – evaluate for lameness or interference  
2. Observe the conformation of your horse and note any conformation problems  
3. Observe the foot axis of each foot to determine geometric balance  
4. Note any deformities or abnormalities of the foot.  
5. Clean the hoof and note the position of the wear on the shoes  
6. Note the type or style of the shoe on your horse and whether it is appropriate  
7. Talk with the owner about the horse’s use and any gait problems.  
8. Discuss with the owner shoe preference and cost.
- S. YLM 321-1 900/4

**Resume Open Questions**

- 26 Q. What is the proper name for the substance produced by the skin which coats each hair and causes it to lie flat and gives them a shine?
- A. Sebum
- S. Lewis pg 179 460/3
- 27 Q. Fresh forage that is cut, chopped and fed that same day is called what?
- A. Green chop or soilage (Do not accept haylage)
- S. Lewis pg 66 700/3



**2007 NYS 4-H Horse Bowl  
Round Eight**

28 Q. It is rare that a horse is poisoned by a single mouthful of a toxic plant. Name one of the two plants that are considered to be the exception to this rule.

A. Water hemlock or yew

S. Lewis pg 301 770/4

29 Q. What is the minimum height of perimeter pasture fencing?

A. 5 feet

S. HIH 350-1, Evans pg 760 920/3

**Last Question of the Round**

30 Q. Using the proper term, what structure is being described? This structure is composed of cardiac muscle, it is the middle and thickest layer of the heart wall and is responsible for contraction of the heart.

A. Myocardium or myocardial muscle

S. DET pg. 185 440/4