

# 2011 New York State 4-H Senior Horse Bowl Round 8

## One-On-One

1. C1 Q. The medication atropine is used to treat bradycardia.  
What is bradycardia?
- A. Abnormally slow heart rate
- S. DET p. 37, p. 17 805/4
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2. C2 Q. What is the primary cause of runoff on horse farms?
- A. Overgrazing
- S. HIH 360-4 920/3
- 
3. C3 Q. What is the common term for diarrhea?
- A. Scours
- S. DET p. 240 830/4
- 
4. C4 Q. What vitamin deficiency is associated with a deficiency  
of the mineral cobalt?
- A. Vitamin B12
- S. Lewis p. 39 740/4

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5. C1 Q. You are competing in a calf-roping event. What is the name of the six foot long rope you are carrying and will use to tie the legs of the calf?

A. Piggin' string

S. DET p. 212            1060/3

6. C2 Q. What is the proper term for the circular movement of an eye or leg?

A. Circumduction

S. DET p. 51            410/4

7. C3 Q. What breed is noted for its excellent conformation as a miniature horse and was developed in Argentina?

A. Falabella

S. Evans p. 67            200/4

8. C4 Q. What general type of equine has the lowest incidence of twin pregnancies?

A. Pony breeds

S. Lewis p. 240            510/4

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9. C1 Q. What mammal has been implicated as the reservoir or definitive host for the protozoa, *Sarcocystis neurona*?
- A. Opossum
- S. ES p. 174; HIH 670-1                      830/4
- 
10. C2 Q. In feeding management, what term describes the uptake of ground moisture into a bale of hay?
- A. The wicking effect
- S. YLM 710-5                      700/4
- 
11. C3 Q. What is the term for the inflammation of the bursa that is located between the thoracic vertebrae and the nuchal ligament of the neck?
- A. Fistulous withers (also accept sinus of the withers)
- S. Lewis p. 389; Kainer plate 20                      810/4
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12. C4 Q. What activity is described as gymnastics on the moving horse?
- A. Vaulting
- S. DET p. 281                      1070/3

**End One-On-One**

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**Begin Open Questions**

13. Q. How many times a year should pastures be mowed and chain harrowed or dragged to break up manure piles and expose parasite eggs to the elements?
- A. Two to four times per year (accept anything within this range)
- S. HIH 365-6                      920/4
- 
14. Q. Leydig cells in the stallion are responsible for the production of what **two** hormones?
- A. Testosterone and Estrogen
- S. HIH 920-2                      480/4
- 
15. Q. Why is the scarlet livery worn by foxhunting staff commonly called “pinks”?
- A. A famous British tailor named Pinque supposedly made the first coats
- S. DET p. 145                      1080/4
- 
16. Q. Hemiparesis is “weakness” on one side of the body. What does the term hemiplegia describe?
- A. “Paralysis” on one side of the body
- S. DET p. 137                      820/4

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**Toss Up – Bonus Attached**

17. Q. Identify **two** nutrients or additives that should be limited in the diet of a horse with liver disease.
- A. Carbohydrates, fats, protein, fat and salt
- S. Lewis p. 296                      700/4

**Bonus Question**

18. Q. (Bonus) Erosion on your pastures is affected by what **four environmental** factors?
- A. Soil type (would include clay, sandy, rocky, etc.), slope of the land (topography), amount of rain or snowfall (precipitation) and vegetative cover
- S. HIH 360-4                                      920/4

**Resume Open Questions**

19. Q. In comparison to the horse, how is the length of the estrous cycle of donkeys and ponies different?
- A. Estrous cycles are longer (usually 25 days instead of 19-22 days)
- S. Kainer plate 71                      510/3
20. Q. If weight loss is observed in an older horse the horse's diet should be changed to a diet similar to that fed to a long yearling. What is a long yearling?
- A. A horse more than 1 year old but not yet 2 years old
- S. HIH 450-2; DET p. 171                      700/3

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21. Q. Identify **one** of the two types of flies that serve as intermediate hosts for the Habronema species of stomach worms.
- A. Houseflies (*Musca domestica*) or Stable flies (*Stomoxys calcitrans*)
- S. Evans p. 642; HIH 415-1                      835/4
- 
22. Q. Would the nerves for the forelegs or hind legs originate in the brachial plexus?
- A. Forelegs
- S. Kainer plate 22                      420/4
- 
23. Q. Approximately 99% of Standardbred horses trace their ancestry to what foundation sire?
- A. Hambletonian 10
- S. Evans p. 29; HIH 171B-1                      200/3

**Toss Up – Bonus Attached**

24. Q. Identify **two** of the four breeds of horses that are affected by the sex-linked disease Hemophilia A.
- A. Thoroughbred, Standardbred, Quarter Horse and Arabian
- S. HIH 1060-6; ES p. 99                      5504

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**Bonus Question**

25. Q. (Bonus) Timeline... The eruption and wear of the permanent teeth can be used to determine the age of a horse. Organize the following **four** types of permanent teeth according to the age of eruption...  
Canines...1<sup>st</sup> premolar...2<sup>nd</sup> molar...2<sup>nd</sup> (intermediate) incisor

A. 1<sup>st</sup> premolar (wolf tooth) (5-6 months)  
2<sup>nd</sup> molar (2 years)  
2<sup>nd</sup> incisor (3 ½ years)  
Canines (4-5 years)

S. Evans pp. 92093                      835/4

**Resume Open Questions**

26. Q. What is the most common material used to make bits?

A. Stainless steel

S. HIH 1100-10                      1000/3

27. Q. What term refers to the conformation defect seen in older mares, thin mares and mares with a flat croup, high tail head and/or a tendency to be sway backed which affects fertility?

A. Pneumovagina (also accept “windsucking”)

S. YLM INT 230-1L                      600/3

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28. Q. How does the thickness of the hoof wall determine the web or width of a horse shoe?

A. The web or width should be twice the thickness of the hoof wall

S. YLM INT 221-2L                      900/4

29. Q. In general, what does the statement “live foal” describe?

A. A foal that stands and nurses

S. DET p. 170                      500/3

**Last Question of the Round**

30. Q. What type of bacteria is considered the **most common** cause of infectious enterocolitis in **adult** horses?

A. Salmonella

S. HIH 660-1                      830/4