

**2010 New York State Junior 4-H Horse Bowl  
Round 8**

**One-On-One**

1. C1     Q. What is the term for the uptake of ground moisture into a bale of hay?  
  
          A. Wicking  
  
          S. HIH 710-5
  
2. C2     Q. What term would be used to describe the severe abdominal pain  
            caused by possible impaction, obstruction, gastrointestinal upset,  
            parasites, and many others?  
  
          A. Colic  
  
          S. HIH 710-5
  
3. C3     Q. What mammal has been implicated as the host for the protozoa  
            carrying the infection that causes EPM in horses?  
  
          A. The opossum  
  
          S. ES p. 174
  
4. C4     Q. The predisposition for twinning pregnancies is highest for  
            Thoroughbred horses and is lowest for what type of equine?  
  
          A. Ponies  
  
          S. Lewis p. 240

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5. C1 Q. The mane and tail can be the same color, darker than, or lighter than the base coat color of the horse. What is the term for when the mane and tail are very light in color?
- A. Flaxen
- S. ES p. 41
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6. C2 Q. What is the name of the fluid that lubricates the eye of the horse?
- A. Lacrimal fluid
- S. Evans p. 125
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7. C3 Q. Meiosis and mitosis are terms used for the process of cell division. Which one of these terms is used in reference to reproductive cell division?
- A. Meiosis
- S. ES p. 88
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8. C4 Q. In a polo match, what is the term for the 7 ½ or 8 minute periods of play?
- A. Chukka
- S. DET p. 56

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9. C1 Q. Racehorses perform at high intensities of exercise. Is fatigue in these horses most likely to result from lactic acid accumulation or glycogen depletion?
- A. Lactic acid accumulation
- S. HIH 850-2
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10. C2 Q. The foal receives initial immunity protection from the mare. How long does it take for a foal's own immune system to become functional and able to provide an adequate defense against infectious disease?
- A. 2-4 months (accept anything within this range)
- S. YLM B112-2L
- 
11. C3 Q. In a stallion, which testicle is often larger?
- A. Left testicle
- S. Kainer plate 74
- 
12. C4 Q. In reference to saddle tack, what is a pillian?
- A. A pad that attaches to the back of a saddle on which a second rider or pack is carried
- S. DET p.212

**End One-On-One**

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**Begin Open Questions**

13. Q. What type of reins are fastened to the girth and then passed through the rings of the snaffle bit into the rider's hands?
- A. Draw reins
- S. DET p. 231
- 
14. Q. How old would a horse be with incisor teeth that are triangular in shape, and Galvayne's groove extends from the gum margin to the wearing surface?
- A. 20 years old
- S. Kainer plate 49, HIH 240-3
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15. Q. What general area of the horse is the sciatic nerve located?
- A. Hind limb
- S. Evans p. 705
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16. Q. On average, how much blood does a 1000 pound adult horse have?
- A. 13.2 gallons (accept 13 gal.) or 50 liters
- S. YLM 119-2L

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**Toss Up – Bonus Attached**

17. Q. In a reining class, what is the base score that each horse and rider start with?
- A. 70
- S. HIH 162-1

**Bonus Question**

18. Q. Give three reasons why you would choose to use recycled newsprint as bedding instead of straw or wood shavings.
- A. Pollen free (benefit those with allergies)  
Less dust (benefit horses with respiratory problems)  
Lighter in weight  
More absorbent (keep stall dryer longer)  
Cheaper  
Environmentally friendly
- S. HIH 330-2

**Resume Open Questions**

19. Q. What is the name of the disease that is caused by a metabolic imbalance resulting from disturbed hormone productions; some of the signs include abnormal hair coat, lack of ability to shed hair, frequent urination, obesity, and muscle weakness.
- A. Cushing's disease
- S. ES 181

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20. Q. In the time line of the development of breeds of horses, which horse breed is older, the American Saddlebred or the Tennessee Walker?
- A. American Saddlebred
- S. Evans p. 40, HIH 152-2
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21. Q. Name one physiological function that will increase the requirement for salt in the horse's diet?
- A. Sweating; lactation
- S. Evans p. 236, Lewis pp. 25-26
- 
22. Q. Ceilings in horse stalls should be a minimum of what height?
- A. 8 feet
- S. Evans p. 778
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23. Q. Where would you find an elliptic spring on a carriage?
- A. Under the seats
- S. DET p. 90

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**Toss Up – Bonus Attached**

24. Q. Two parts: What is the name of the main artery of the foreleg and the main artery of the hind-leg of the horse?
- A. Foreleg- Axillary artery  
Hind-leg- Femoral artery
- S. Evans p. 706

**Bonus Question**

25. Q. The sense of taste of the horse is similar to that of humans. What four tastes is the horse capable of sensing?
- A. Bitter; Sweet; Salt; Sour
- S. ES p. 67

**Resume Open Questions**

26. Q. After what age does a mare's reproductive ability decrease?
- A. After 16 years old
- S. HIH 940-1

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27. Q. Name four trace minerals you would find in a trace mineral salt block.

A. Manganese	Iron	Zinc
Copper	Iodine	Sodium chloride
Selenium	Cobalt	

S. Lewis p. 26

28. Q. In the rodeo event of steer wrestling, what is the job of the hazer?

A. Rides on the opposite side of the steer wrestler to keep the steer from running away from the wrestler's horse (keeps the steer running straight)

S. DET 130

29. Q. Which breed of horse is affected by the disease equine night blindness?

A. Appaloosa

S. ES p. 100

**Last Question of the Round**

30. Q. What provides a new born foal with a natural laxative and antibodies?

A. Colostrum

S. Evans 427