

**2012 New York State Senior 4-H Horse Bowl  
Round 9**

**One-On-One**

1. C1     Q. What muscle causes the hair to stand on end and helps to keep the horse warm in cold weather?
- A. Erectores pilorum
- S. DET p. 99            410/4
- 
2. C2     Q. Metamucil is a psyllium based soluble fiber and would be used to treat or prevent what type of colic?
- A. Sand-induced colic
- S. Lewis p. 293            805/3
- 
3. C3     Q. A “live foal” guarantee in a breeding contract indicates the foal has met what **two** criteria after parturition?
- A. A foal that stands and nurses
- S. DET p. 170            940/3
- 
4. C4     Q. Genetic defects are described as a true, partial or delayed lethal. What type of lethal would Combined Immunodeficiency be considered?
- A. Delayed genetic lethal (lethal that produces some characteristics that ultimately result in death after birth)
- S. HIH 1060-4, 1060-5            550/4

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5. C1    Q. What is the primary difference between the horses that are raced in the Kentucky Derby and the Kentucky Oaks?
- A. Both races are for 3 year old Thoroughbreds but the Kentucky Oaks is a race for only fillies
- S. DET p. 161            1040/4
- 
6. C2    Q. In which joint is the olecranon bone located?
- A. Elbow
- S. DET p. 195            410/4
- 
7. C3    Q. Which type of equine has a gestation period that is approximately 30 days longer than a mare?
- A. Jennet (donkey)
- S. Evans p. 76            510/4
- 
8. C4    Q. In the Netherlands a horse described as an ancient dun color would have unusual body markings such as zebra stripes or teardrops over the barrel of the body. What is another term for this unique dun color?
- A. Brindle Dun
- HIH 154B-1            300/5

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9. C1 Q. What is the slang term for the post parturient hypocalcemia that may occur in the lactating mare?
- A. Milk fever
- S. DET p. 180                      510/5
- 
10. C2 Q. What do the following terms describe? Pueblo, Montura and Texas
- A. Types of saddles
- S. DET p. 182, 222, 266              1000/4
- 
11. C3 Q. What nutrient is absorbed in the small and large colon?
- A. Water
- S. ES pp. 112-113                      700/3
- 
12. C4 Q. When performing the “airs above the ground” dressage movement referred to as the capriole, which of the horses legs are off the ground?
- A. Both the front and hind legs (all legs)
- S. DET p. 22                      1090/4

**End One-On-One**

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**Begin Open Questions**

13. Q. The cells known as the Islets of Langerhans are found in which organ?
- A. Pancreas (insulin producing cells)
- S. Kainer plate 54            490/5
- 
14. Q. What external parasite is the intermediate host for the Habronema species of the stomach worm?
- A. House fly (*Musca domestica*) or Stable fly (*Stomoxys calcitrans*)  
(only need to give one answer)
- S. HIH 415-1; Evans p. 645            835/4
- 
15. Q. In general, what are the **two** major functions of the digestive tract?
- A. Digestion and absorption
- S. ES p. 108            430/4
- 
16. Q. The symbol A (capital A) represents the agouti gene which restricts the eumelanin or black color to what areas on the horse?
- A. Points
- S. ES p. 95            300/4

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**Toss Up – Bonus Attached**

17. Q. A typical Hunter Hack class requires the horses to jump two fences and show on the rail at what **four** gaits?
- A. Walk, trot, canter and hand gallop
- S. DET p. 145            1010/

**Bonus Question**

18. Q. Identify **four** ways that “excess” water is excreted from the horse’s body.
- A. Urine, feces, sweat, water vapor from the lungs (respiration)
- S. ES p. 116            400/5

**Resume Open Questions**

19. Q. When comparing the life expectancy of untreated wood fence posts, which of the following types of wood would last the longest?  
White oak, black locust or yellow poplar
- A. Black locust
- S. Evans p. 770            920/4
20. Q. The speed index is a method of rating racehorses. What **two** criteria are used to calculate the speed index?
- A. Speed and distance
- S. DET p. 253            1

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21. Q. When interpreting a Y-Tex Corporation freeze brand, what does the alpha character or letter brand identify?
- A. Breed of the horse
- S. Evans p. 810                      940/5
- 
22. Q. Are male or female horses primarily affected by genetic diseases that have an X-linked mode of inheritance?
- A. Male horses
- S. HIH 1060-3                      550/4
- 
23. Q. Flexor tendons in which **specific** joint “unlock” the fixed position of the stay apparatus in the hind legs?
- A. Stifle
- S. Kainer plate 36                      410/4

**Toss Up – Bonus Attached**

24. Q. Identify **two** of the three rodeo events that are referred to as “rough stock events”?
- A. Bareback riding, saddle bronc riding and bull riding
- S. DET p. 237                      550/4

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**Bonus Question**

25. Q. (Bonus) Identify **five** indications or reasons for the use of bandages.

A. Protection from trauma (shipping/travel wraps)

To absorb exudates

To control hemorrhage (bleeding)

To exert pressure which can prevent/reduce edema

To support an injured limb

To protect a wound from environmental contamination/infection

To aid in removal of necrotic tissue/for debridement

To provide comfort

S. HIH 1160-1      400/5

**Resume Open Questions**

26. Q. What specific type of cell division takes place in the ovaries and testes?

A. Meiosis

S. ES p. 88      550/5

27. Q. The highest mortality rate occurs in horses that develop neurologic disease as a result of which type of equine encephalomyelitis?

A. Eastern Equine Encephalomyelitis

S. HIH 625-3      850/4

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28. Q. Hay should be baled at what ideal moisture level?
- A. 17 to 20 percent (accept anything within this range)
- S. HIH 750-4            780/4
- 
29. Q. What term refers to a foal that is born prior to 320 days gestation?
- A. Premature foal
- S. HIH 950-9            500/3

**Last Question of the Round**

30. Q. When comparing the absorbency of types of bedding, which of the following would be the most absorbent?  
Shredded newspaper, straw or pinewood sawdust
- A. Shredded newspaper
- S. HIH 330-2            920/4