

## One-On-One

- 1**

## 2005 Eastern National 4-H Horse Bowl Round Four

5 C1 Q. A group of horses possessing specific distinguishable characteristics, such as function, conformation and color that are not common to other horses would be defined by what term?

### A. Breed

S. Evans pg 137 0200/2

6 C2 Q. In the horse, what is the easiest and most meaningful sign to measure to determine physical fitness?

### A. Heart rate

S. Lewis pg 206 440/3

7 C3 Q. What will be the effect on the stride of a horse with a shoulder angle less than 45 degrees compared to ideal shoulder conformation?

A. The stride length will be longer

S. AYHC-YLM ADV 323-3 L 0600/3

8 C4 Q. What is the term for the accumulation of excessive synovial fluid in the joint capsule of the fetlock?

### A. Wind-puffs

S. Kainer – Plate 14, DET pg 224 620/3

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- 9 C1      Q.    What is the proper term for horse shoeing that is used as a mechanical technique to assist in the medical treatment of foot or limb disease?
- A.    Therapeutic shoeing (**not corrective**)
- S.    AYHC-YLM-INT 2321-1                      0900-/3
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- 10 C2      Q.    What is the foundation for any successful fly control program?
- A.    Sanitation or manure management.
- S.    HIH 415-3                                      1100/3
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- 11 C3      Q.    What is the name for the small boat shaped bone that the deep flexor tendon passes over before it attaches to the coffin bone?
- A.    Navicular bone (distal sesamoid, shuttle bone)
- S.    Lewis pg 397                                      400/3
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- 12 C4      Q.    What product do the sebaceous glands located in the dermis layer of the skin produce?
- A.    Sebum
- S.    Kainer plate 5                                      460/3

**End One-On-One**

## **2005 Eastern National 4-H Horse Bowl Round Four**

### **Begin Open Questions**

- 13    Q.    In hands, what is the maximum height a registered American Miniature Horse can be?
- A.    8.2 hands (34 inches)
- S.    AYHC-YLM Beg 110-2 L                      0200/3
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- 14    Q.    What joint is subjected to the greatest strain of all of the horse's joints?
- A.    Fetlock or metacarpal-phalangeal joint.
- S.    Evans pg 689                                      400/3

### **Toss Up – Bonus Attached**

- 15    Q.    Name two of the three elastic structures of the equine hoof that function as shock absorbers.
- A.    1 – Frog  
             2 – Lateral cartilages  
             3 – Digital or plantar cushion
- S.    AYHC-YLM-INT 206-2 L                      400/3

### **Bonus Question**

- 16    Q.    Bonus question: The average hoof growth rate for all horses is 3/8 inch or 1 cm. per month. Name four situations or conditions that would cause this growth rate to increase.
- A.    1 – Young horses grow faster than older horses  
             2 – Warm temperatures produce faster growth than cold temperatures  
             3 – Irritation or injury increase growth rate  
             4 – Increased wear or exercise increase growth rate  
             5 – Optimal nutrition increases growth rate compared to marginal or poor nutrition
- S.    AYHC-YLM-INT 206-3                      400/4

## Resume Open Questions

- ## Toss Up – Bonus Attached

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### **Bonus**

- 21    Q.    Bonus question: Compare corn and oats with regard to energy, protein and cost per unit of energy.
- A.    Corn is higher in energy, lower in protein and less expensive per unit of energy than oats.
- S.    AYHC-YLM-ADV 302-2L                      700/3

### **Resume Open Questions**

- 22    Q.    The process of reproduction in the mare is driven by the action of what group of substances?
- A.    Hormones
- S.    HIH 910-5, AYHC-YLM-ADV 326-2 L                      480/3
- 23    Q.    If one parent is homozygous for a dominant color and the other parent is heterozygous for the same dominant color, what color will the foal be from this mating?
- A.    The same color as the parents
- S.    HIH 1040-1    550/2
- 24    Q.    What vitamin functions jointly with selenium in protecting body tissues from oxidation induced damage?
- A.    Vitamin E
- S.    Lewis pg 28    740/4

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- 25 Q. Side bone is the term for the complete ossification of the cartilages of which phalanx?
- A. Distal Phalanx (Pedal bone, 3<sup>rd</sup> Phalanx, Coffin bone)
- S. Kainer Plate 12 800/4

## Toss Up – Bonus Attached

- |    |    |   |       |
|----|----|---|-------|
| 26 | Q. | Name two congenital defects of the mandible.                |       |
|    | A. | Parrot mouth (overshot jaw)<br>Monkey mouth (undershot jaw) |       |
|    | S  | Evans pg 93   | 600/3 |

## Bonus

- 27 Q. Bonus question: Give four reasons why you would choose to feed hay in a cubed form rather than loose hay.
- A. 1 – Less waste  
2 – Reduced intestinal fill; allows the horse additional feed intake  
3 – Easier storage; less space required  
4 – Reduced transportation costs  
5 – Easier to transport when away from home traveling or at a show  
6 – Minimizes dust  
7 – Can be used in automated feeders  
8 – Decreased fecal material
- S. Lewis pg 67 710/3

## Resume Open Questions

- ### Last Question of the Round

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