

**2011 New York State 4-H Senior Horse Bowl
Round 4**

One-On-One

1. C1 Q. What is the **correct** term for the type of behavior exhibited by horses that is also referred to as mimicry, contagious or infectious behavior?
- A. Allelomimetic
- S. Evans p. 676 910/3
-
2. C2 Q. At what age does the Galvayne's Groove extend halfway down the upper corner incisor tooth?
- A. Age 15 years
- S. HIH 240-4 835/3
-
3. C3 Q. (Two Part) Describe how to determine the capillary refill time including what would be considered a normal value for a healthy horse.
- A. Press your finger against the horse's gums for a few seconds then release and count the seconds until normal color returns to the gums. Normal is 1 to 3 seconds (accept any answer that indicates range of 3 seconds or less). (Must include both how to and normal value to be correct answer)
- S. ES p. 163 800/3
-
4. C4 Q. What is the **scientific name** for the species of bots that lays its black eggs on the short hairs on the lips?
- A. *Gastrophilus hemorrhoidalis*
- S. Evans p. 634 835/4

**2011 New York State 4-H Senior Horse Bowl
Round 4**

5. C1 Q. During exercise blood flow to the skin increases.
What is the physiological purpose for this occurrence?
- A. Improves the efficiency of heat loss (helps to cool the horse)
- S. Evans p. 114 440/3
-
6. C2 Q. Which type of Encephalomyelitis can be transmitted
from “horse to horse”?
- A. Venezuelan
- S. Evans p. 599 820/3
-
7. C3 Q. What mineral is necessary for proper function of the
thyroid gland?
- A. Iodine
- S. ES p. 138 740/2
-
8. C4 Q. The canter is more collected and not as fast as the
gallop or run. What is the other **major** difference
observed when comparing the canter and gallop?
- A. The canter is a 3 beat gait and the gallop is a 4 beat gait
- S. ES pp. 74-78 640/2

**2011 New York State 4-H Senior Horse Bowl
Round 4**

9. C1 Q. What is gonitis?
A. Inflammation of the stifle joint
S. DET p. 123 810/3
10. C2 Q. What does the term “free- legged” pacer describe?
A. A pacer that races without hobbles
S. DET p. 114 1040/3
11. C3 Q. Approximately 1-4 days before foaling secretions from the mare’s teats will become thicker, more cloudy and cover the end of the nipples. What term commonly refers to this occurrence?
A. Waxing or waxing-over
S. Lewis p. 244 510/2
12. C4 Q. What escape vice is described as rhythmic shifting of the weight from one forefoot to the other while swinging the head?
A. Weaving
S. Lewis p. 371 930/3

End One-On-One

**2011 New York State 4-H Senior Horse Bowl
Round 4**

Begin Open Questions

13. Q. Exacta and Perfecta are both types of wagering in which the bettor selects the first and second place finishers in a race. What is the **difference** in how the horses must finish to collect on these two types of wagers?

A. Exacta-horses must finish in the “exact” order selected
Perfecta-horses must finish in first or second place without regard to the actual order in which they pass the post

S. DET p. 100, 209 1040/3

14. Q. What type of bacteria causes Strangles?

A. Streptococcus equi

S. Lewis p. 173 850/3

15. Q. NAERIC is a non-profit organization that promotes the partnership between the profession of horse breeders and women’s health care. What do the initials NAERIC stand for?

A. North American Equine Ranching Information Council

S. HIH 1970-1 230/4

16. Q. How would the sympathetic nervous system affect the heart rate?

A. It would increase the heart rate

S. Kainer plate 80 800/3

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

Toss Up – Bonus Attached

17. Q. What are the correct anatomical terms for the **three** skeletal structures that form the thoracic cavity?
- A. Thoracic vertebrae (also accept vertebrae); ribs and sternum
- S. Evans p. 97 410/3

Bonus Question

18. Q. (Bonus) Name **five** types of Western saddles.
- A. Pleasure, Trail, Endurance, Reining, Barrel Racing, Roping, Cutting, Show (Western Pleasure/Equitation)
- S. HIH 1100-4 1010/3

Resume Open Questions

19. Q. You are working as a farrier and reach **behind your back** to get the tool you need from your shoeing box. How will you determine whether you have the pull offs or the nippers?
- A. Pull offs have knobs on the ends of the handles
- S. HIH 530-1 900/3
20. Q. What sex-linked disease results in a deficiency of clotting factor VIII (clotting factor 8)?
- A. Hemophilia A (Hemophilia)
- S. Evans p. 511 550/3

**2011 New York State 4-H Senior Horse Bowl
Round 4**

21. Q. What condition does your horse have if it has pediculosis?
- A. Lice infestation
- S. DET p. 207 835/3
-
22. Q. What term refers to the dental condition found mainly in older horses that is a result of uneven wear of the teeth and gives a “wave-like” appearance to the teeth when viewed from the side?
- A. Wave mouth
- S. DET p. 288 430/4
-
23. Q. Grain, or concentrate, should not account for more than what percent of a horse’s diet?
- A. Not more than 40 percent
- S. ES p. 107 700/4

Toss Up – Bonus Attached

24. Q. Identify the **three** stallions that are traditionally considered to be the foundation sires for the Thoroughbred breed.
- A. Godolphin Arabian, Darley Arabian and Byerly Turk
- S. Evans p. 21 200/3

**2011 New York State 4-H Senior Horse Bowl
Round 4**

Bonus Question

25. Q. (Bonus) The prefixes “a” or “an” refer to a deficiency or absence of a structure or substance. What do the following **four** terms describe?

Aniridia
Agalactia
Anhydrosis
Anoxia

- A. Aniridia – absence of the iris
Agalactia – inability of mare to produce milk
Anhydrosis – deficiency or lack of sweating
Anoxia – lack of oxygen

S. DET p. 4, 11, 13; ES p. 100 400/3

Resume Open Questions

26. Q. What **two** things are **mandatory** when transporting horses across **all** state lines?

A. Negative Coggins Test and current health certificate (also accept Bill of Good Health or Certificate of Veterinary Inspection)
(Brand inspection, etc. would not be considered a correct answer because it is not required by **all** states)

S. YLM ADV 301-2L 960/2

27. Q. In regards to color genetics, which color is considered to be dominant...black or bay?

A. Bay

S. Evans p. 479 550/3

**2011 New York State 4-H Senior Horse Bowl
Round 4**

28. Q. In which type of competition do horses perform without any personal contact from a rider or handler, as in circus acts?

A. Liberty classes

S. DET p. 168 1010/3

29. Q. You do the math... Your horse's resting heart rate is **32 beats per minute**. The stroke volume or amount of blood pumped during each heart contraction is approximately **1 liter**. What is the **cardiac output** for this horse?

A. Approximately 32 liters per minute (stroke volume x heart rate)

S. Evans p. 111 440/3

Last Question of the Round

30. Q. For what period of time is the ovum viable after ovulation occurs?

A. 12 to 24 hours (accept anything within this range)

S. Evans p. 396 510/3