

2006 Iowa Senior 4-H Horse Bowl Round One

One-On-One

- 1 -1 Q. What is the name of the competitive equine sport that is one of the Olympic competition events and is derived from the French word for training?
- A. Dressage
- S. HIH 172-1
- 2-2 Q. What are the withers, back, loin and croup collectively called?
- A. Top line
- S. AYHC-YLM-INT 223-2
- 3-3 Q. Name two systems of the horse that use smooth muscle.
- A. Digestive, respiratory, circulatory, integument, urogenital & reproductive
- S. HIH 840-1
- 4-4 Q. What must occur within the first twelve hours of life for the foal to develop an initial resistance to disease by passive transfer of immunity from the mother?
- A. The foal must receive colostrum
- S. HIH 950-2
- 5-1 Q. At what stage of growth is hay most easily digested by the horse?
- A. Immature hay, pre-bloom
- S. AYHC-YLM-ADV 337-2 L, HIH 750-2

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- 6-2. Q. What is the term for the type of vision where the horse sees different images with each eye?
- A. Monocular vision
- S. HIH 1220-1 420/2
- 7-3 Q. What disease is caused by a spore forming, toxin producing bacterium found commonly in the soil named *Clostridium tetani*?
- A. Tetanus or Lockjaw
- S. AYHC-YLM-BEG 104-2 L
- 8-4 Q: Which feed is used extensively in diets for horses that have respiratory problems such as heaves?
- A: Beet pulp
- S. AYHC 760-8

End One-On-One

Begin Open Questions

- 9 Q. Name the breed that was first to establish a breed registry for an American breed of horse in 1891 in Louisville Kentucky and currently has its breed organization located at the Kentucky Horse Park.
- A. American Saddlebred
- S. HIH 156-1
10. Q: What is the device used to collect samples for analysis in baled hay?
- A: Bale probe or bale core
- S: AYHC 750-6 Level: 1 Category: a

2006 Iowa Senior 4-H Horse Bowl Round One

Toss Up – Bonus Attached

11. Q. What part of the nervous system is involved in the involuntary control of the cardiac muscle of the heart?
- A. Autonomic
- S. HIH 840-1

Bonus Question

12. Q. Bonus question: 2 part question: What breed of horse is registered on a “temporary” basis until they reach the age of five years? Why is this done?
- A. American Miniature Horse, Quarter Pony to insure they do not exceed the maximum breed standard for height at maturity.
- S. HIH. P. 154-1

Resume Open Questions

13. Q: The destruction of the frog by anaerobic bacteria is called what?
- A: Thrush
- S. **AYHCLM** A334
14. Q: Which adult parasite resembles a honey bee?
- A: Bot fly
- S. **AYHC** 430-3
15. Q: Name 3 minerals that make up the electrolyte balance of the horse.
- A: Sodium, potassium, chloride
- S: **AYHC** 820-2

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Toss Up – Bonus Attached

16. Q: Which organization was created by Claude Mullins in 1947 to encourage youth to stay in school & promote the highest type of conduct & sportsmanship?

A: National High School Rodeo Association, Inc

S: **AYHC** 171-2

Bonus Question

17. Q: Name the 6 maneuvers required in each approved reining horse pattern.

A: Small slow circles, large fast circles, flying lead changes, roll backs over the hocks, 360 degree spins done in place, sliding stops

S: **AYHC** 162-1

Resume Open Questions

18 Q: What structure in the mare is responsible for the production of estrogen and progesterone?

A. The ovaries

S. **HIH** 910-4

Last Question of the Round

20. Q: What is the name for the conformational defect described as the cannon bone being set too far to the outside of the knee?

A. Bench or offset knee

S. **HIH** 230-3

2006 Iowa Senior 4-H Horse Bowl Round Two

One-On-One

- 1 -1 Q: The common name used for the metacarpal bone is the ?
- A. Cannon bone
- S: HIH 230
- 2-2 Q: In the horse, which category of teeth is found only as permanent dentition and is never shed?
- A. The molars or last 3 cheek teeth, **also canines**
- S. AYHC-YLM,-ADV 304-1
- 3-3 Q. What hormone is released by the uterus to destroy the corpus luteum on the ovary if the mare does not conceive during that estrous cycle?
- A. Prostaglandin
- S. HIH 910-6
- 4-4 Q. A 1000lb mature horse of any classification needs how much long-stemmed forage on a daily basis to keep the digestive tract functioning properly?
- A. 10 pounds (accept 8 - 12 lb)
- S. HIH 750-1
- 5-1 Q. The coupling is the pivot point of the horse's back and is supported by which of the horse's vertebrae.
- A. Lumbar vertebrae
- S. HIH 220-6

**2006 Iowa Senior 4-H Horse Bowl
Round Two**

- 6-2. Q: Lysine is a type of what nutrient?
A: Protein (amino acid)
S. **AYHC 790-5**
- 7-3 Q: The formula of heart girth times body length is used to determine what?
A: horse's weight
S: **AYHC 710-3**
- 8-4 Q: Name a breed of horse that is homozygous for the Dn gene.
A: Fjord horse
S. **AYHC 1040**

End One-On-One

Begin Open Questions

- 9 Q. The hypothalamus secretes gonadotropic releasing hormone (GnRH) to stimulate what other part of the brain?
A. Pituitary gland
S. **HIH 910-6 AYHC-YLM-ADV 326-2 L**
10. Q: How many pairs of ribs does a horse have?
A: 18
S. **HIH 230**

2006 Iowa Senior 4-H Horse Bowl Round Two

Toss Up – Bonus Attached

11. Q. Give two reasons why grain sorghum (milo) needs to be ground, rolled or crimped before feeding to horses?
- A. The kernel is small and very hard
- S. AYHC-YLM-ADV 302-2 L

Bonus Question

12. Q: What are 5 forms of harvested forages?
- A: Square bales, round bales, hay cubes, chopped hay, pelleted hay & silage
- S: AYHC 750-4

Resume Open Questions

13. Q. How many years out of every seven must a horse business make a profit to be considered a business by the Internal Revenue Service and not a hobby?
- A. 2 years
- S. HIH 1360-1
14. Q: What are the gonads?
- A: Ovaries & testicles
- S: AYHC 910
15. Q: What is the name of the procedure used to identify mares in estrus?
- A: Teasing
- S: AYHC 930-1

2006 Iowa Senior 4-H Horse Bowl Round Two

Toss Up – Bonus Attached

16. Q. Name two non-infectious respiratory diseases that will impair the physical performance of a horse.
- A. Exercise induced pulmonary hemorrhage (bleeders or nasal epistaxis)
Laryngeal hemiplegia (roaring)
Chronic obstructive pulmonary disease (heaves)
- S. HIH 810-2 & 3

Bonus Question

17. Q. Bonus question: Name four nutrients that good quality legume hay is higher in than good quality grass hay.
- A. Energy
Protein
Calcium
Vitamin B
Vitamin A
- S. AYHC-YLM-INT 202-1 L

Resume Open Questions

18. Q. What orthopedic disease of the front foot is a horse predisposed to develop if it is “camped out”?
- A. Navicular or laminitis
- S. AYHC-YLM-INT 229-2 L
19. Q. What structure in the mare is responsible for the production of estrogen and progesterone?
- A. The ovaries
- S. HIH 910-4

2006 Iowa Senior 4-H Horse Bowl Round Two

Last Question of the Round

20. Q. The national average of live foals versus mares bred is only 50% under human management, but in the 80-90% range in wild horse populations. Give one reason the managed birth rate of the horse is the lowest of all domestic species
- A. Breeding stock is not chosen for reproductive efficiency, but rather for their athletic success, pedigree or conformation, or mares are asked to breed outside of their natural reproductive season to encourage the birth of foals as close to the universal birth date of Jan. 1st.
- S. HIH 910-4, 5

2006 Iowa Senior 4-H Horse Bowl Round Three

One-On-One

- 1 -1 Q: Why does caution need to be exercised when using shavings, specifically black walnut?
- A: Black walnut shavings cause horses to develop laminitis or founder
- S: **AYHC 330-1**
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- 2-2 Q: What term describes a mare that is not pregnant & was not bred in the previous or current season?
- A: Open mare
- S: **AYHC 940-1**
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- 3-3 Q: Which type of stall is not used as much as they were in the past?
- A: Tie stalls
- S: **AYHC 320-5**
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- 4-4 Q: At what time do most mares foal?
- A: Between 7 PM & 7 am
- S: **AYHC 940-4**
-
- 5-1 Q: Which type of pasture will produce more forage yield, grasses or grass & legume mixtures?
- A: Mixed
- S: **AYHC 730-1**

**2006 Iowa Senior 4-H Horse Bowl
Round Three**

6-2. Q: What type of saddle places the rider well behind the withers & just behind the 'center' of the horse?

A: Saddleseat saddle, cut back saddle or flat saddle

S: **AYHC 1100**

7-3 Q: What is not generally included in the price of a new English saddle?

A: Stirrup leathers, stirrup irons, girth

S: **AYHC 1100**

8-4 Q: What is a cavesson & what is its purpose?

A: It's the noseband on an English bridle, helps keep bridle in place & keeps horse's mouth closed

S: **AYHC 1100**

End One-On-One

Begin Open Questions

9 Q: Name a calcium & phosphorus supplement that can be added to grain mixture.

A: Dicalcium phosphate, defluorinated rock phosphorus & bone meal mixture, steamed bone meal, calcium carbonate (limestone), tricalcium phosphate, monocalcium phosphate, diammonium phosphate

S: **AYHC 760-1**

**2006 Iowa Senior 4-H Horse Bowl
Round Three**

10. Q: Name 2 materials that can be applied to wood to prevent horses from chewing wood.

A: Commercial anti-chewing products, sheet metal, steel angle iron, liquid asphalt

S: AYHC 405-1

Toss Up – Bonus Attached

11. Q: Which gene is responsible for mottled, varnish roan, blanket with spots, blankets, frost, leopard & a few leopard spots in horses?

A: Leopard gene, Lp

S: AYHC 1040-

Bonus Question

12. Q: Name 2 cool season grass hays & 2 warm season grass hays.

A: Warm -- bahiagrass, bermuda grass, pangolgrass, johnson grass,
Cool- timothy, smooth brome grass, canary grass, orchard grass,
tall fescue, redtop

Ref: AYHC 750-3

Resume Open Questions

13. Q: In reference to tack, what are fittings?

A: Stirrup leathers, stirrup irons & girth

S: AYHC 1100

14. Q: The retention of one or both testicles in the body cavity occurs fairly frequently in stallions is referred to as what?

A: Cryptorchidism

S: AYHC Int 227-1

**2006 Iowa Senior 4-H Horse Bowl
Round Three**

15. Q: Overheating in a horse is called what?

A: Hyperthermia

S: HIH 410

Toss Up – Bonus Attached

16. Q: What disease is characterized by muscle stiffness and rigidity?

A: Tetanus or lockjaw

S: HIH 445

Bonus Question

17. Q: Name 5 materials used for stall floors.

A: Clay, sand & clay mix, limestone dust, asphalt, rubber mats, concrete, wood, rubber paving bricks, fiber reinforced polyethylene interlocking blocks

S: AYHC 320-2 Level: 9 Category: 1

Resume Open Questions

18. Q: Horses have 33 different chromosome strings, the X & Y chromosomes are called sex chromosomes, what are the other ones called?

A: Autosomes

S: AYHC 1060-

19. Q: What is the name of the marking on a horse's leg in which a white band of hair goes around the top of the horse's hoof?

A: Coronet

S: HIH-140

**2006 Iowa Senior 4-H Horse Bowl
Round Three**

Last Question of the Round

20. Q: What is the term for a mare that is not pregnant but was bred in the previous or current season?

A: Barren mare

S: **AYHC** 940-1

2006 Iowa Senior 4-H Horse Bowl Round Four

One-On-One

- 1 -1 Q. Where in the horse digestive tract is the primary source of nutrient digestion?
- A. Small intestine
- S. HIH 710-1
- 2-2 Q. When hay is green it possesses larger quantities of beta carotene, therefore making green hay richer in what vitamin?
- A. Vitamin A
- S. HIH 750-2
- 3-3 Q. What type of bit with two pair of reins acts as both a snaffle and curb?
- A. Pelham
- S. AYLC-YLM Beg 108-3 L
- 4-4 Q. Name the horse color that usually has black points and a dorsal stripe, and the hair color is not a mixture of black and white, but each hair is a smoky or mouse color.
- A. Grullo
- S. HIH 140-1
- 5-1 Q. What common name is given to the formation of excessive granulation tissue?
- A. Proud flesh.
- S. HIH 1100-3

**2006 Iowa Senior 4-H Horse Bowl
Round Four**

6-2. Q. At what age would you find the central deciduous incisors erupting in a foal?

A. Birth to 7 days (accept anything in that range)

S. HIH 405-1

7-3 Q: Name the 2 basic classifications of forages.

A: Legumes & grasses

S:: AYHC 760-1

8-4 Q: What is a by-product of sucrose refined from sugar cane, sugar beets or from the manufacture of dried citrus pulp?

A: Molasses

S:: AYHC 760-7

End One-On-One

Begin Open Questions

9 Q; What is the proper term for horse shoeing that is used as a mechanical technique to align and support the horse's stance or to change the timing of its gait?

A. Corrective shoeing (**not therapeutic**)

S. AYHC-YLM-INT 2321-1

10. 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

2006 Iowa Senior 4-H Horse Bowl Round Four

Toss Up – Bonus Attached

11. 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

Bonus Question

12. Q. Bonus question: Name four functions of the horse's cardiovascular system.
- A. 1 – Delivers oxygen from the lungs to the tissues of the body
2 – Delivers nutrients to the tissues of the body
3 – Carries waste products from tissues for removal (would accept two answers including removal of CO₂ from the lungs and removal of waste products from metabolism to the kidneys)
4 – Helps regulate body temperature
5 – Delivers clotting factors to injured tissue
6 – Delivers white blood cells and immunoglobulins to tissues for defense of the body
- S. HIH 830-1

Resume Open Questions

13. Q. How many deciduous teeth has the normal horse shed by 5 years of age?
- A. 24 teeth – 12 incisors and 12 premolars – the molars are permanent teeth
- S. HIH 405-1

**2006 Iowa Senior 4-H Horse Bowl
Round Four**

14. Q. What are two ways you can encourage an aggressive eater to eat slower?
- A. Placing bricks or softball size stones in the feed box; Feeding in large shallow troughs; feeding extruded feeds; mixing chopped hay with the concentrate; bars in the feed box, automatic feeder to feed in small doses and feed nervous horses first.
- S. HIH 710-8
15. Q. What is a common term for pneumovagina where fecal material is sucked into the vulva?
- A. Windsucking
- S. AYHC-YLM-ADV 326-1

Toss Up – Bonus Attached

16. 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

Bonus Question

17. Q: What breeds were combined to create the Tennessee Walking Horse?
- A: Thoroughbred, Standardbred, Morgan and Saddlebred
- S. HIH 152

2006 Iowa Senior 4-H Horse Bowl Round Four

Resume Open Questions

18. Q: Body condition scoring is a procedure used to determine how much what an animal has?
- A: Body fat
- S: HIH 710-4
- 19 Q: Give the scientific name including genus and species of the parasite that is the major concern of foals up to six months of age.
- A. *Parascaris equorum*
- S. HIH 950-9

Last Question of the Round

20. Q: What toxic effect does moldy clover hay have on the horse?
- A. It is an anti-coagulant – blood will not clot (depletion of Vitamin K).
- S. HIH 750-3

2006 Iowa Senior 4-H Horse Bowl Round Five

One-On-One

- 1 -1 Q. What vitamin is essential for normal hoof growth and development?
- A. Vitamin A (Biotin is not a correct answer)
- S. AYHC-YLM-INT 206-1
- 2-2 Q. What are the two major factors that determine the traits and characteristics of a horse?
- A. Heredity (genetics) and environment.
- S. HIH 1020-3
- 3-3 Q. In a balanced horse, the length of the horse's legs will be approximately the same length as the depth of what other measurement of that horse?
- A. Depth of heart (also accept heart girth)
- S. AYHC-YLM-ADV 323-2 L, HIH 220-6
- 4-4 Q. What is the name of the muscular structure that serves as the barrier between the vagina and the uterus?
- A. Cervix
- S. AYHC-YLM-ADV 326-1-L
- 5-1 Q. One of the distinguishing characteristics of the Appaloosa is a spotted coat pattern. With regard to this coat pattern where is the white blanket found on the horse.
- A. Over the hip area
- S. AYHC-YLM-BEG 117-1 L

**2006 Iowa Senior 4-H Horse Bowl
Round Five**

6-2. Q. What is the most damaging condition to the quality of stored hay?

A. Moisture

S. HIH 710-5

7-3 Q. Where in the horse's digestive system does maximum water absorption occur?

A. Small Colon.

S. AYHC-YLM-ADV 303-3 L

8-4 Q. What U.S. President was involved in the acquisition of foundation stock that led to the establishment of the Arabian breed registry in the United States?

A. Ulysses S. Grant

S. HIH 150-1

End One-On-One

Begin Open Questions

9 Q. How old would a horse be with all deciduous teeth present and the central adult incisors just starting to erupt?

A. 2 ½ years old

S. AYHC-YLM-INT 205-2

10. Q. What tooth is a premolar, but not considered one of the cheek teeth, is variable in the number present and is found in the interdental space?

A. Wolf teeth

S. HIH 405-1 & 2

2006 Iowa Senior 4-H Horse Bowl Round Five

Toss Up – Bonus Attached

11. Q. Which grain should not make up more than 50% of the horses grain mix because of the potential problem of forming a dough-ball in the horse's stomach?
- A. Wheat.
- S. AYHC-YLM-ADV 302-2 L

Bonus Question

12. Q. Bonus question: Name three things important to the balance of the horse whose length is determined by shoulder angle
- A. Length of neck
Length of Stride
Length of back
Depth of hearth girth
- S. AYCH-YLM-INT 223-2 L

Resume Open Questions

13. Q. Fat soluble vitamins, B vitamins, Calcium and Phosphorus are absorbed in what part of the horse's digestive tract?
- A. Small intestine
- S. AYHC-YLM-ADV 303- 1 L
14. Q. The hindgut of the horse is a site of active microbial digestion of fibrous feeds into what primary energy source for the horse?
- A. Volatile fatty acids (VFA)
- S. HIH 710-2

2006 Iowa Senior 4-H Horse Bowl
Round Five

15. Q. What portion of the hoof wall is the thickest to give it more strength at the point of greatest wear?
- A. Toe
- S. AYHC-YLM-BEG 106-1 L

Toss Up – Bonus Attached

16. Q. Name the two sets of muscles that function to expand the thorax for inspiration.
- A. 1 – Diaphragm
2 – Intercostal muscles
- S. HIH 810-1

Bonus Question

17. 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

Resume Open Questions

18. Q. Name two items that can be added to a regular stock saddle to keep it centered on the animal's back and allow it to be used as a pack saddle.
- A. Breeching, breast plate or croupier (crupper)
- S. AYHC-YLM-BEG 118-1-2, HIH 1125-1

**2006 Iowa Senior 4-H Horse Bowl
Round Five**

- 19 Q. The oldest and most common method of selecting hay is a hands-on appraisal. Other than a visual inspection what two other methods of examination would be used?
- A. Feel and Smell
- S. HIH 750-5

Last Question of the Round

20. Q. During the winter months what would be a proper term to classify the natural status of the mare's reproductive cycle?
- A. Anestrus
- S. HIH 910-5

2006 Iowa Senior 4-H Horse Bowl Round Six

One-On-One

- 1 -1 Q. Horses feeding on pasture only always need access to what supplement?
- A. Salt or trace mineralized salt
- S. HIH 710-7
- 2-2 Q. In the luteal phase of the estrous cycle following ovulation the corpus leuteum produces what hormone?
- A. Progesterone
- S. HIH 910-6
- 3-3 Q. What event occurs for the foal at 4 to 6 months of age that is stressful for both the mare and foal and a time when the foal's growth rate slows?
- A. Weaning
- S. AYHC-YLM-BEG 112-2 L
- 4-4 Q. Each breed organization has defined the ideal horse for its breed. What do we call the arrangement of muscle, bone and other body tissue used to judge this ideal horse?
- A. Conformation
- S. AYHC-YLM-Adv 323-1 L
- 5-1 Q. If you are using a continuous deworming program for your horse, what internal parasite are you not controlling?
- A. Bots
- S. HIH 430-7

**2006 Iowa Senior 4-H Horse Bowl
Round Six**

- 6-2. Q. What would you call forage that has been fermented and stored in anaerobic conditions?
- A. Silage or haylage
- S. AYHC-YLM-ADV 302-1 L
- 7-3 Q: The Coggins test is used in the detection of what disease of the horse?
- A: Equine Infectious Anemia
- S: **AYHC 630-1**
- 8-4 Q. To see objects that are far away, what must the horse do?
- A. Lower its head
- S. HIH 1220-1

End One-On-One

Begin Open Questions

- 9 Q: What are you checking for when you pinch and hold for a couple of seconds your horse's skin on the side of its neck?
- A: Skin pliability test (check for dehydration)
- S. AYHC Beg 115-1
10. Q. Feeds being processed by the horse's digestive tract spend the longest period of time in what part of the tract?
- A. Large intestine (Cecum and large colon 36 to 72 hours)
- S. AYHC-YLM-INT 203-1 L

2006 Iowa Senior 4-H Horse Bowl
Round Six

Toss Up – Bonus Attached

11. Q. What factor at harvest would cause the baled hay to become moldy, and will generate heat that will cause a loss of vitamin content, decrease protein digestibility and possibly lead to spontaneous combustion.
- A. Baling the hay too wet – high moisture content – greater than 20%
- S. AYHC-YLM-ADV 337-2 L, HIH 750-4

Bonus Question

12. Q. Bonus question: There are four classes of horses based upon their nutritional class or status in life. Name the classes.
- A. Growing Horse (Weanlings & Yearlings)
Mature Idle (accept mature)
Producing (Late Gestation Mares & Lactating Mares)
Working
- S. AYHC-YLM-B 103-1 L

Resume Open Questions

13. Q. What is the primary function of the myometrium at the birth of the foal?
- A. It is responsible for the powerful contractions which expels the foal at birth?
- S. HIH 910-3
14. Q. In the horse's small intestine soluble carbohydrates are digested into what simple structure to be absorbed and used as energy?
- A. Sugars or glucose
- S. AYHC-YLM-ADV 303-1 L

**2006 Iowa Senior 4-H Horse Bowl
Round Six**

15. Q. What is the term used to describe the dental status of a horse with all adult incisors in wear at five years of age?
- A. Full mouth
- S. AYHC-YLM-INT 205-1

Toss Up – Bonus Attached

16. Q. A seven year old stallion with two wolf teeth would have how many total permanent teeth?
- A. 42 (12 I, 12P, 12M, 4C, 2wolf)
- S. AYHC-YLM-INT 205-1

Bonus Question

17. Q. Bonus question: What are three functions estrogens play in the mare's estrous cycle?
- A. 1 – Stimulate receptive behavior of the mare to the stallion
2 – Prepare the uterus for conception
3 – Stimulate the pituitary gland to release LH (leutenizing hormone)
- S. HIH 910-6

Resume Open Questions

18. Q. Name two things the sensitive structures of the hoof have that the insensitive do not.
- A. Blood vessels and nerves
- S. AYHC-YLM-BEG 106-1 L

2006 Iowa Senior 4-H Horse Bowl
Round Six

- 19 Q. The measure of how much blood the heart can pump per minute is cardiac output. What two factors determine this value?
- A. Heart rate and stroke volume.
- S. AYHC-YLM – INT 225-2 L

Last Question of the Round

20. Q: Which disease affects many systems, primarily the skin, joints, nervous system & heart & is caused by the bacteria, borrelia burgdorferi?
- A: Lyme disease
- S: **AYHC 655-1**

2006 Iowa Senior 4-H Horse Bowl Round Seven

One-On-One

- 1 -1 Q. What organ functions to increase the oxygen carrying capacity of the blood in strenuous exercise by releasing the red blood cells it stores?
- A. Spleen
- S. HIH 850-4
- 2-2 Q: Name the structure found in the horse's foot that is responsible for absorbing the shock of its stride.
- A: Frog
- S: **AYHC** 505-4
- 3-3 Q: Name the 4 external parts of the horse's topline.
- A: Withers, back, loin (coupling), croup
- S: **AYHC** 220-6
- 4-4 Q: When is the most critical time for proper nutrition in the pregnant mare?
- A: 9 - 11 months
- S: **AYHC** 750-7
- 5-1 Q: What can you do to prevent your foal from getting septicemia?
- A: Treat newborn's navel cord with iodine or other antibacterial medication as soon as possible after birth
- S: **AYHC** 950-5

**2006 Iowa Senior 4-H Horse Bowl
Round Seven**

6-2. Q: What is the incubation time for bot eggs & what stimulates them to hatch?

A: Incubation is 1 - 5 days, hatch when horse licks them

S: **AYHC** 415-5

7-3 Q: What is a bony enlargement that appears on the inside & front of the hock at the point where the base of the hock tapers into the cannon bone?

A: Bone spavin or Jack spavin

S: **AYHC** 230-4

8-4 Q: When a horse's diet is lacking in long stemmed roughage, what vice is likely to develop?

A: Cribbing

S: **AYHC** 710-5

End One-On-One

Begin Open Questions

9 Q. What happens to the total nutrient content of hay when it is over-cured, and baled with too low a moisture content?

A. The nutrient content decreases because the leaves shatter and fall off

S. **HIH.** 750-4

10. Q: What is the speed of the running walk gait of the Tennessee Walking Horse?

A: 8 - 10 miles per hour

S: **AYHC** 152-1

2006 Iowa Senior 4-H Horse Bowl Round Seven

Toss Up – Bonus Attached

11. Q: Give an example of why you would use a cold poultice on your horse.

A: Decrease inflammation & swelling caused by a blow or kick or reduce swelling, heat & pain of a bruise or hematoma

S: **AYHC 440-6 L**

Bonus Question

12. Q: Name 5 ways that EIA can be transmitted to other horses.

A: Mosquitoes, horse flies, deer flies, surgical instruments, through an infected mare's placenta, through milk of infected mare, hypodermic needles, any other method of transferring blood

S: **AYHC 630-1**

Resume Open Questions

13. Q. What structure in the mid brain of the horse is responsible for the coordination of the estrous cycle and the long-term control of seasonal reproductive activation?

A. Hypothalamus

S. **HIH 910-5, AYHC-YLM-ADV 326-2 L**

14. Q: Horses that are camped out are predisposed to what 2 abnormal conditions?

A: Navicular disease & laminitis

S: **AYHC 230-5**

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15. Q: Give one reason why you would give your mare human chorionic gonadotropin.
- A: Stimulate ovulation with 48 hours or to hasten or ensure ovulation
- S: **AYHC** 930-4

Toss Up – Bonus Attached

16. Q: What is the poisonous chemical found in the secretion of the blister beetle?
- A: Cantharid
- S: **AYHC** 415-9

Bonus Question

17. Q: Genetic defects are sometimes characterized based on the lethality of the trait that is involved. Name the 3 types of lethals & Give an example of each.
- A: True lethal -- lethal white foal syndrome, lethal dominant roan, Delayed lethal -- cerebellular abiotrophy, cleft palate, Partial lethal -- parrot mouth, umbilical hernia, poor limb formation
- S: **AYHC** 1060

Resume Open Questions

18. Q: Give 2 things that you can do to help prevent equine encephalomyelitis.
- A: Vaccine, use insecticides & repellents, eliminate standing water, put fine screen on stalls, immediately report an outbreak to officials (Dept of Ag or State Vet)
- A: **AYHC** 625-3

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19 Q: What genetic condition may affect offspring produced by mating two overo paint horses?

A: Lethal white

S. HIH 1060

Last Question of the Round

20. Q: Name the major cause of infertility in a mare.

A: Uterine infections / human mismanagement

S: **AYHC** 940-1