2012 District Horse Bowl Contest
Senior Round One

ONE-ON-ONE QUESTIONS
1) Q: What is the primary function of the sole of the hoof?
   C1  A: Protection
   Source: AYHC 505-2

2) Q: What is the equine counterpart to the human knee?
   C2  A: The stifle
   Source: Evans2 164

3) Q: What forms the basis for movement, length of stride and ultimately performance?
   C3  A: Balance
   Source: HIH 220-5

4) Q: When taking a horse’s pulse on his leg, you would lightly press the artery against which bone?
   C4  A: Sesamoid
   Source: AYHC 505-5

5) Q: Movement in the horse is referred to as what?
   C1  A: Way of going
   Source: Evans2 169

6) Q: Abnormalities that do not affect the intended use of serviceability are called what?
   C2  A: Blemishes
   Source: HIH 230-1
7) Q: What type of shoe is put on the back feet of reining horses?
   C3  A: Sliding plates
       Source: AYHC 515-3

8) Q: The speed of the horse is determined by what two (2) things?
   C4  A: Stride frequency and stride length
       Source: Evans2 169

9) Q: The horse's forelimbs bear about what percent of its weight?
   C1  A: 65%
       Source: HIH 230-1

10) Q: At what age group is hoof growth the greatest?
    C2  A: Foals
        Source: AYHC 525-1

11) Q: What registry is the thoroughbred horse registered in?
    C3  A: The Jockey Club
        Source: Evans2 17

12) Q: Do high rates of fermented microbial digestion occur in the foregut or hindgut?
    C4  A: Hindgut
        Source: HIH 303-1

TOSS-UP QUESTIONS

13) Q: What is thrush compared to in humans?
    A: Athlete's foot
        Source: AYHC 540-1

14) Q: From what breed does every breed of horse originate?
    A: Arabian
        Source: Evans2 17
15) Q: What is the minimum ceiling height in a covered arena for horse and rider safety?
A: 14 feet
Source: HIH 320-7

16) Q: What type of Equine Encephalomyelitis has the lowest mortality rate?
A: Western
Source: AYHC 625-3

17) Q: What name is given to the condition in which hitting the hind leg at the coronet with the toe of the forefoot?
A: Scalping
Source: Evans2 179

18) TOSS UP WITH BONUS ATTACHED
Q: What problem can be associated with Black Walnut shavings?
A: Founder
Source: HIH 330-1

19) BONUS
Q: Give two (2) good reasons for using glue-on-horse shoes?
A: Fragile hoof walls, weak footed, thin hoof walls, sore or tender feet (laminitis)
Source: AYHC 515-5

20) Q: At what gait is a horse most apt to crossfire?
A: Pace
Source: Evans2 179

21) Q: What is the primary cause of runoff on horse farms?
A: Overgrazing
Source: HIH 360-4
22) **TOSSUP WITH BONUS ATTACHED**

Q: Name the human disease that can affect horses alike that is primarily transmitted by infected ticks.
   A: Lyme disease
   Source: AYHC 655-1

23) **BONUS**

Q: In what three (3) ways can vices be classified?
   A: Dangerous to the handler, dangerous to the horse, and nuisance habit
   Source: Evans2 182

24) **Q:** At what age are deciduous central incisors present?
   A: Birth
   Source: HIH 405-1

25) **Q:** What is the most nutritious part of the hay?
   A: Leaves
   Source: AYHC 710-5

26) **Q:** What is the fluid that lubricated a joint?
   A: Synovial fluid
   Source: Evans2 182

27) **TOSSUP WITH BONUS ATTACHED**

Q: Under normal circumstances, how does the horse cool itself?
   A: By sweating
   Source: HIH 410-1

28) **BONUS**

Q: Name three (3) groups of horses that might require supplemental nutrients, in spite of good pasture, fresh water and trace mineral salt.
   A: Lactating mares, foals, breeding stallions and hardworking/performance horses
   Source: AYHC 730-1
29) Q: What is the first part of the digestive tract?
   A: The mouth
   Source: Evans2 190

30) Q: What two (2) things are necessary for bot eggs to hatch?
   A: Friction and moisture
   Source: HIH 430-3

31) Q: What is the primary function of skeletal muscles?
   A: Movement
   Source: AYHC 840-1

32) Q: Approximately how long is the horse's large intestine, in feet?
   A: 25 ft
   Source: Evans2 192

END OF ROUND ONE
ONE-ON-ONE QUESTIONS

1) Q: What are retained deciduous teeth called?
   C1  A: Caps
       Source: AYHC 405-2

2) Q: Where is the horse's gall bladder located?
   C2  A: Horses do not have a gallbladder
       Source: Evans2 192

3) Q: What type of bit has a mouthpiece that is jointed with a ring at each end to which the reins are attached?
   C3  A: Snaffle
       Source: HIH 1100-8

4) Q: What is a common name for hyperthermia?
   C4  A: Heatstroke, sunstroke, heat exhaustion, or heat cramps
       Source: AYHC 410-1

5) Q: What is the primary site of protein digestion?
   C1  A: The small intestine
       Source: Evans2 196

6) Q: The top of the vertebrae of the horse where the back meets the neck is called what?
   C2  A: Withers
       Source: HIH 110-5

7) Q: What causes heat cramps?
   C3  A: Loss of electrolytes
       Source: AYHC 410-1
8) Q: For how many hours can a foal absorb the antibodies in colostrums?

   C4 A: Up to 36 hours after birth
   Source: Evans2 197

9) Q: Why should adhesive elastic materials, such as vetwrap, never be directly applied to the skin or a wound?

   C1 A: They can cut off the blood supply
   Source: HIH 1160-1

10) Q: Name an external parasite that causes considerable pain by piercing the horse's skin with their bayonet-like mouth parts.

    C2 A: Horse flies or deer flies
    Source: AYHC 415-2

11) Q: What is the single most important consideration when selecting a horse?

    C3 A: Purpose for which it will be used
    Source: Evans2 204

12) Q: What are the two (2) types of reinforcement?

    C4 A: Positive and negative
    Source: HIH 1240-2

TOSS-UP QUESTIONS

13) Q: During which season are lice more of a problem for horses?

    A: Winter
    Source: AYHC 415-5

14) Q: Nearly 90% of all Thoroughbreds trace back to what stallion that was unbeaten in 26 starts?

    A: Eclipse
    Source: Evans2 21
15) Q: The oldest of American horse breeds, this light horse is compact and muscular, with a refined body and chiseled face. The foundation sire was named after his owner. What is the breed?
A: Morgan
Source: HIH 151-1,2

16) Q: A skin pliability test is used to check for what condition?
A: Dehydration
Source: AYHC 425-2

17) Q: What is the most common form of malnutrition in horses in the United States?
A: Obesity (overfeeding)
Source: Evans2 218

18) TOSS UP WITH BONUS ATTACHED
Q: In what year was the AQHA (American Quarter Horse Association) founded?
A: In 1940
Source: HIH 153-1

19) BONUS
Q: Name two (2) of the three (3) main salivary glands.
A: Parotid, submacillary (mandibular), and sublingual
Source: AYHC 425-3

20) Q: In what year did Secretariat win the Thoroughbred Triple Crown races?
A: 1973
Source: Evans2 22

21) Q: Name this breed. It is known for its extreme elegance and they can either be 3-gaited or 5-gaited.
A: The American Saddlebred
Source: HIH 156-1
22) TOSSUP WITH BONUS ATTACHED
Q: What is a more common name for aerophagia?
   A: Windsucking
Source: AYHC 425-6

23) BONUS
Q: What do the initials TWHEA stand for?
   A: Tennessee Walking Horse Breeders and Exhibitors Association
Source: HIH 162-1

24) Q: The deficiency of what mineral will result in rickets in a young horse?
   A: Phosphorus
Source: Evans2 229

25) Q: What parasite lays eggs on the horse's hair and hatches and matures in the horse's mouth and digestive tract?
   A: Bots
Source: AYHC 430-3

26) Q: What is the function of the butt bar in a horse trailer?
   A: Safety device for the horse to brace against in case the back door comes open
Source: HIH 201-1

27) TOSSUP WITH BONUS ATTACHED
Q: What gland is affected by a goiter?
   A: Thyroid gland
Source: Evans2 233

28) BONUS
Q: Name three (3) types of internal parasites.
   A: Roundworms (ascarids), bloodworms (strongyles), pinworms, and bots
Source: AYHC 430-1
29) Q: What is the physical appearance of an animal due to the arrangement of muscle, bone and other body tissue referred to as?
   A: Conformation
   Source: HIH 220-1

30) Q: What is an essential mineral in hemoglobin?
   A: Iron
   Source: Evans2 233

31) Q: Ideally, how long should a new horse be isolated before being added to a herd?
   A: 30 days
   Source: AYHC 445-1

32) Q: Why is molasses added to horse rations?
   A: To reduce dust and improve palatability
   Source: Evans2 253

END OF ROUND TWO
ONE-ON-ONE QUESTIONS

1) Q: What disease is caused by *Ehrlichia risticii*?
   C1   A: Potomac Horse Fever
        Source: IDET 219

2) Q: How many lobes make up the horse’s right lung?
   C2   A: Three (3)
        Source: Evans2 105

3) Q: What is secreted into the small intestine to emulsify, or break down, fat and is produced in the liver?
   C3   A: Bile
        Source: EqSci 111

4) Q: What is a balanced ration?
   C4   A: A ration that supplies proper amounts of all nutrients needed by the animal
        Source: IDET 22

5) Q: The trachea splits into the left and right what?
   C1   A: Bronchi
        Source: Evans2 105

6) Q: What part of the digestive tract is the physiological equivalent to the human appendix?
   C2   A: Cecum
        Source: EqSci 112

7) Q: What hormone initiates lactation?
   C3   A: Prolactin
        Source: IDET 221
8) Q: What is an infection that is localized in the lungs called?
   A: Pneumonia
   Source: Evans2 110

9) Q: What was the original use of the horse?
   A: Source of food
   Source: EqSci 12

10) Q: What do the initials “TPR” stand for?
    A: Temperature, pulse and respiration (rates)
    Source: EqSci 156

11) Q: Which of the following horses would have the best hearing: a stallion, mare, or gelding?
    A: Stallion
    Source: Evans2 121

12) Q: What is the term for the loud, deep vocalization of the ass?
    A: Bray
    Source: EqSci 21

TOSS-UP QUESTIONS

13) Q: What does the term “palatable” mean?
    A: Pleasant to the taste
    Source: EqSci 66

14) Q: Where is insulin produced?
    A: Pancreas
    Source: Evans2 127
15) Q: Name the breed of pony that accepts animals that are taller than 14.2 hands tall and refers to them as Cobs.
   A: Welsh Pony, C type
   Source: EqSci 28

16) Q: How many bones comprise the skull of the horse?
   A: 37
   Source: IDET 248

17) Q: Sweat glands are located everywhere on the horse’s body with the exception of where?
   A: On the legs
   Source: Evans2 129

18) TOSS UP WITH BONUS ATTACHED
Q: What is another name for the face marking called “paper-faced”?
   A: Bonnet
   Source: EqSci 30

19) BONUS
Q: Name the five (5) regions of the spinal column.
   A: Cervical, thoracic, lumbar, sacral, and coccygeal
   Source: IDET 251

20) Q: According to the 1990 American Horse Council statistics, what is the most popular breed in the United States?
   A: Quarter Horse
   Source: Evans2 137

21) Q: What is the term for the intermixing of two (2) slightly different shades of the same base coat color creating a circular or ring-shaped pattern in the horse’s coat?
   A: Dappled
   Source: EqSci 38
22) TOSSUP WITH BONUS ATTACHED
Q: Who is the first horse registered in the AQHA?
A: Whimpy (Whimpy P1)
Source: IDET 292

23) BONUS
Q: The cardiovascular system of the horse consists of what four (4) main components?
A: Heart, arteries, veins and capillaries (blood ok)
Source: Evans2 111

24) Q: What colors are the eyes and skin of the cremello?
A: Blue eyes and pink skin
Source: EqSci 43

25) Q: What is a zygote?
A: A fertilized egg
Source: IDET 298

26) Q: Where is the deltoid muscle located?
A: Shoulder
Source: Evans2 141

27) TOSSUP WITH BONUS ATTACHED
Q: What is the main function of bone marrow?
A: Production of red and some white blood cells
Source: IDET 34

28) BONUS
Q: Name three (3) types of primitive markings that are darker than the animal’s base color.
A: Dorsal stripe, wither stripe or cross, zebra marks around knees, hocks or lower legs, cobwebbing or spider-webbing on the forehead
Source: EqSci 38
29) Q: A horse with a convex shaped nose is commonly referred to as what?
   A: Roman nose
   Source: Evans2 143

30) Q: Who was the first racehorse to earn two (2) million dollars?
    A: Affirmed
    Source: IDET 4

31) Q: What sensory defect is found in some splashed white horses?
    A: Deafness
    Source: EqSci 50

32) Q: What is the carbohydrate found in plants that is indigestible called?
    A: Cellulose
    Source: IDET 52

END OF ROUND THREE
ONE-ON-ONE QUESTIONS

1) Q: The length of a horse's stride is influenced greatly by the slope of its shoulder. A very steep shoulder results in what type of stride?
   C1  A: Short stride
   Source: AYHC 220-6

2) Q: When referring to the Triple Crown races, where does the Preakness fall in chronological order?
   C2  A: Second
   Source: IDET 219

3) Q: What genetic lethal condition is also known as megacolon?
   C3  A: Lethal White Foal Syndrome
   Source: EqSci 98

4) Q: What is the retention of one (1) or both testicles in the body cavity called?
   C4  A: Cryptorchidism
   Source: AYHC 227-1

5) Q: What is nettle rash?
   C1  A: Hives
   Source: IDET 190

6) Q: What is the total range of vision in degrees?
   C2  A: 350 degrees
   Source: EqSci 55

7) Q: What suspends the testes within the scrotum?
   C3  A: The spermatic cord
   Source: AYHC 227-2L
8) Q: What breed will you get if you cross an Andalusian with a Quarter Horse?
   C4   A: Azteca
   Source: IDET 19

9) Q: What genetic condition causes visual impairment at night and is found in Appaloosas?
   C1   A: Equine Night Blindness
   Source: EqSci 100

10) Q: What is an obligate parasite?
    C2   A: A parasite that cannot survive away from the host animal
    Source: AYHC 300-1

11) Q: Nephritis is the inflammation of what organ?
    C3   A: Kidneys
    Source: IDET 189

12) Q: Which type of vision has the widest field of vision?
    C4   A: Monocular
    Source: EqSci 56

TOSS-UP QUESTIONS

13) Q: Why should a potential horse farm site have a slope of two (2) to six (6) percent?
    A: For good drainage
    Source: AYHC 320-2

14) Q: Does neck reining use direct or indirect reining?
    A: Indirect
    Source: IDET 189
15) Q: Research indicates that horses can see in color. Which color does the horse have the most difficulty in seeing?
   A: Red
   Source: EqSci 60

16) Q: What type of stall door is safest and easiest to use?
   A: Sliding door
   Source: AYHC 320-6

17) Q: What is the proper term for the bulge on the head of an Arabian horse?
   A: Jibbah
   Source: IDET 157

18) TOSS UP WITH BONUS ATTACHED
   Q: What is another name for olfactory sense?
   A: Sense of smell
   Source: EqSci 61

19) BONUS
   Q: Name three (3) vices that are caused by boredom in confined horses.
   A: Wood chewing, pawing, weaving and cribbing
   Source: AYHC 320-1

20) Q: Most foundation Quarter Horses trace back to what Thoroughbred, imported into Virginia in 1752?
    A: Janus
    Source: IDET 157

21) Q: Each ear of the horse can rotate how many degrees?
    A: About 180 degrees
    Source: EqSci 62
22) **TOSSUP WITH BONUS ATTACHED**

**Q:** What is the major cause of corns?
   **A:** Leaving a short heeled shoe on too long

**Source:** AYHC 334-1

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23) **BONUS**

**Q:** Which parent determines the sex of the offspring and why?
   **A:** Stallion determines sex because he carries an X & Y chromosome

**Source:** EqSci 91

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24) **Q:** Name two (2) conditions a riding horse may develop from constant rein and bit pressure in the mouth and a rider’s constant leg pressure.
   **A:** Hard mouth and dead sides

**Source:** EqSci 65

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25) **Q:** What is the simplest and most effective management protocol for bringing mares into heat prior to the natural breeding season?
   **A:** The use of extended day light

**Source:** AYHC 336-2L

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26) **Q:** Describe instinctual behavior.
   **A:** An unlearned form of behavior

**Source:** IDET 153

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27) **TOSSUP WITH BONUS ATTACHED**

**Q:** Name the mechanical process that reduces the particle size of food, increases the amount of surface area and stimulates the release of saliva during digestion.
   **A:** Mastication (chewing)

**Source:** EqSci 109

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28) **BONUS**

**Q:** Name three (3) ways to protect your horse in case of a fire.
   **A:** Keep halter and lead rope near stalls, never lock stalls, have water available, clothes for blindfolds, fire drill

**Source:** AYHC 340-2
29) Q: What is the distance, in miles, of an 8 furlong race?
   A: 1 mile
   Source: IDET 116

30) Q: Liquids can take as little as 15 to 30 minutes and dry matter may take as long as 12 hours to pass through this digestive organ that makes up about 8% of the total digestive tract. Name this organ.
   A: Stomach
   Source: EqSci 110

31) Q: At what age do the permanent central incisors erupt?
   A: 2.5 years of age
   Source: AYHC 405-1

32) Q: What two (2) breeds were crossed to form the Welera?
   A: Arabian and Welsh
   Source: IDET 10

END OF ROUND FOUR
ONE-ON-ONE QUESTIONS

1) Q: What is the process of passing genetic material to the next generation?
    
    C1   A: Inheritance
        Source: IDET 171

2) Q: What is the term for a mule that is often plainer looking, thinner in flesh, and shows less evidence of quality than draft mules?
    
    C2   A: Farm mule
        Source: Evans2 690

3) Q: How many days longer are colts carried than fillies during gestation, on average?
    
    C3   A: 2 to 7 days
        Source: EqSci 87

4) Q: What do you call the fecal matter that accumulates in a foal’s rectum during gestation?
    
    C4   A: Meconium
        Source: AYHC112-3

5) Q: What is the false nostril?
    
    C1   A: An extra flap of skin between the outer nostril and the passageway through which the horse breaths.
        Source: Evans2 706

6) Q: What type of movement is necessary for a horse to grind its food?
    
    C2   A: Lateral
        Source: EqSci 74
7) Q: How many beats are in the rack and is it a diagonal or lateral gait?
   C3  A: 4 beats, lateral gait  
   Source: IDET 190

8) Q: What is the Prix des Nations?
   C4  A: An international team show-jumping competition  
   Source: Evans2 517

9) Q: What is the basic unit of inheritance?
   C1  A: Gene  
   Source: AYHC 1020-1

10) Q: During movement, what is the brief moment when all four (4) feet are off the ground called?
    C2  A: Period of suspension  
    Source: IDET 220

11) Q: Grain or concentrates in the horses’ daily diet should not exceed what percentage of the total food intake?
    C3  A: 40%  
    Source: EqSci 107

12) Q: Genetically, what are the three (3) most common colors of horses?
    C4  A: Bay, black and chestnut  
    Source: AYHC 1040-1

TOSS-UP QUESTIONS

13) Q: What is the “mother of all gaits”?
    A: Walk  
    Source: IDET 221

14) Q: What type of colic can result from a lack of available water in the diet?
    A: Impaction colic  
    Source: EqSci 116
15) Q: It is estimated that 25% of Arabians carry the gene for which hereditary disease?
   A: Combined Immune Deficiency (CID)
   Source: AYHC 1060-4

16) Q: What is the base coat color of a blue roan?
   A: Black
   Source: IDET 252

17) Q: These are absorbed through the wall of the small intestine and into the bloodstream by way of the liver when enzymes and acids in the digestive tract break down proteins in food. What are these small chains called?
   A: Amino acids
   Source: EqSci 118

18) TOSS UP WITH BONUS ATTACHED
Q: What is the main function of a headstall?
   A: To hold the bit evenly and comfortably in the horse’s mouth
   Source: AYHC 1100-6

19) BONUS
Q: What are the two (2) ovarian hormones that control the estrous cycle?
   A: Estrogens and progestins
   Source: IDET 280

20) Q: What substance is considered to be the precursor to vitamin A production in the small intestine?
   A: Beta-carotene
   Source: EqSci 123

21) Q: What is the buffer between the movements of the sole and the wall of the hoof called?
   A: The white line
   Source: AYHC 221-1
22) TOSSUP WITH BONUS ATTACHED
Q: What grain is most preferred by horseman?
   A: Oats
   Source: IDET 285

23) BONUS
Q: List four (4) gaits that do not have a stride suspension phase.
   A: Walk, foxtrot, amble, running walk, paso
   Source: EqSci 81

24) Q: The diet of a horse with HYPP needs to maintain a low level of which macro-
     mineral because it accumulates in their body?
   A: Potassium
   Source: EqSci 136

25) Q: How long is the incubation period for strangles, otherwise known as Equine
     Distemper?
   A: 3 to 6 days
   Source: IDET 48

26) Q: What is the registry association for the American Standardbred?
   A: United States Trotting Association
   Source: AYHC 160-1

27) TOSSUP WITH BONUS ATTACHED
Q: What is the maximum percentage of total fat recommended in an equine feed?
   A: No more than 20%
   Source: EqSci 148

28) BONUS
Q: How many body types are recognized by the American Miniature Horse
   Association and what are they?
   A: Two (2), Arabian and Quarter Horse
   Source: AYHC 154-1
29) Q: List the four (4) fat soluble vitamins.
   A: Vitamins A, D, E & K
   Source: EqSci 123

30) Q: What is the term for the gene that cannot mask the genetic makeup of the
      other gene in the allele pair?
   A: Recessive gene
   Source: EqSci 90

31) Q: What breed has vertically striped hooves?
   A: Appaloosa
   Source: AYHC 158-1

32) Q: Define epilation.
   A: The removal of hair by the roots
   Source: IDET 71

END OF ROUND FIVE
ONE-ON-ONE QUESTIONS

1) Q: Where in the digestive tract are amino acids synthesized?
   C1 A: Large intestine
   Source: HIH 710

2) Q: What is the average pulse rate of a healthy foal at rest?
   C2 A: 70-100 beats per minute
   Source: EqSci 100

3) Q: What is the inflammation and enlargement of the growth plates of the long bones in rapidly growing horses called?
   C3 A: Epiphysitis
   Source: Evans2 105

4) Q: What is the coil-like structure of deoxyribonucleic acid referred to as?
   C4 A: Double helix
   Source: IDET 181

5) Q: How many canine teeth does an adult mare usually have?
   C1 A: None
   Source: EqSci 131

6) Q: What state did the American White Horse originate in?
   C2 A: Nebraska
   Source: Evans2 105

7) Q: What type of cells divide mitotically?
   C3 A: Reproductive cells
   Source: IDET 172
8) Q: What does FSH stand for?
   A: Follicle stimulating hormone
   Source: EqSci 15

9) Q: What system of the horse does neonatal isoerythrolysis affect?
   A: Circulatory
   Source: Evans2 109

10) Q: Approximately how many feet long is the small intestine?
    A: 70 feet
    Source: EqSci 111

11) Q: What is the genetic disorder can be identified by the absence of the iris of the eye, plus cataract of the eye, which can be traced back to one Belgian stallion in Sweden?
    A: Aniridia
    Source: EqSci 170

12) Q: Which product of the thyroid gland governs the basic metabolic rate?
    A: Thyroxin
    Source: Evans2 11

TOSS-UP QUESTIONS

13) Q: How many muscles make up the vocal cords?
    A: Two (2)
    Source: IDET 140

14) Q: Excluding the neck and tail, how many vertebrae does the horse have?
    A: Approximately 29
    Source: EqSci 172
15) Q: Name the hormone (NOT INSULIN) that is secreted by the pancreas to control glucose levels in the body.
   A: Glucagon
   Source: Evans 2 110

16) Q: What type of shoe is typically fitted cold?
    A: Keg shoe
    Source: IDET 103

17) Q: What is the infectious disease that leads to rapid death from acute blood poisoning in the horse, and is caused by ingestion of the spore *Bacillus anthracis*?
    A: Anthrax
    Source: EqSci 173

18) TOSS UP WITH BONUS ATTACHED
    Q: What zoological order does the horse fall under?
    A: Perissodactyle
    Source: EqSci 175

19) BONUS
    Q: Name the three (3) categories of microbes that are responsible for the fermentation of fibrous carbohydrates in the cecum?
    A: Bacteria, protozoa, and fungi
    Source: EqSci 112

20) Q: What was the horse Dan Patch famous for?
    A: Pacing
    Source: Evans2 126

21) Q: What is the normal temperature of the adult horse in degrees Fahrenheit?
    A: 100°F ± 1°
    Source: EqSci 155
22) TOSSUP WITH BONUS ATTACHED
Q: What does GASHA stand for?
   A: Golden American Saddlebred Horse Association
   Source: EqSci 189

23) BONUS
Q: Name five (5) of the seven (7) parts of a horseshoe nail.
   A: Head, neck, shank, bevel, point, inner face and outer face
   Source: IDET 104

24) Q: What is another name for the condition called “carpus valgus”? 
   A: Bowlegged
   Source: Evans2 161

25) Q: How many minerals are required for healthy body function of the horse?
   A: At least 14
   Source: EqSci 212

26) Q: Grey horses can have what color markings?
   A: white
   Source: IDET 101

27) TOSSUP WITH BONUS ATTACHED
Q: Define extensor muscle.
   A: Any muscle that extends or straightens a joint
   Source: Evans2 175

28) BONUS
Q: What four (4) organs or areas of the body do ascarids effect?
   A: Udder and teats, small intestine, liver, and lungs
   Source: IDET 100
29) Q: Which of the following infections are caused by a fungus; tetanus, leptospirosis or histoplasmosis?
   A: Histoplasmosis
   Source: EqSci 173

30) Q: What is eliminative behavior?
    A: The behavior of selecting a place to urinate or defecate
    Source: Evans2 623

31) Q: How many pairs of spinal nerves are there?
    A: 42
    Source: IDET 101

32) Q: Cutting of the cunean tendon is used to treat what type of spavin?
    A: Jack or bone spavin
    Source: EqSci 47

END OF ROUND SIX
2012 District Horse Bowl Contest
Senior Round SEVEN

ONE-ON-ONE QUESTIONS
1) C1  Q - A common complication in the healing of leg wounds is the formation of what?
   A - Excessive Granulation
   S - AYHCLM 109-2

2) C2  Q - What is a “mecate” and how long is it?
   A - A long combination lead rope and reins attached to the heel of a bosal: 21 feet
   S - IDET 178

3) C3  Q - Name two (2) types of horseshoe nails.
   A - City shape, regular shape, frost head shape
   S - Evans2 738

4) C4  Q - Agalactia is when the mare is unable to produce milk. Give a nutritional reason for why this condition may occur.
   A - Grazing on fescue pasture during pregnancy
   S - Evans2 276

5) C1  Q - What gene restricts color distribution to the “points,” ie the mane, tail, lower legs and ear rims, by means of a pair of alleles?
   A - Agouti Gene
   S - EqSci 95

6) C2  Q - A horse that has insufficient time to forage may chew wood as a filler and to alleviate boredom. What might be another reason for increased wood chewing and decreased forage intake?
   A - Increased gut acid
   S - Lewis2 197
7) C3  Q - What term refers to an excessive accumulation of cerebrospinal fluid?
   A – Hydrocephalus
   S - CAHA2 81

8) C4  Q - A horse's body contains approximately how much blood?
   A - 13.2 gallons or 50 liters
   S - HIH 830-1

9) C1  Q - Which famous American Saddlebred was the six-time winner of the $10,000 five-gaited championship at the Kentucky State Fair?
   A - Wing Commander
   S - Evans2.39

10) C2  Q - What disease is caused by a tumor on the pituitary gland?
    A – Cushings Disease
    S - EqSci 181

11) C3  Q - What would happen if the umbilical cord were cut off too soon after birth?
    A - The foal would be deprived of substantial quantities of blood
    S - Evans2 595

12) C4  Q - What mineral excess causes a circular horizontal crack in the hoof walls?
    A – Selenium excess
    S - Lewis2 330
TOSS-UP QUESTIONS

13)  Q – What is substance that can be applied topically to control bleeding?
     A – Silver Nitrate
     S - AYHCLM 109-4

14)  Q - Zinc toxicity causes what?
     A – Anemia, swelling at the epiphyseal region of the long bones, stiffness and lameness
     S - Evans2 234

15)  TOSS-UP WITH BONUS ATTACHED
     Q - Name the genetic disease that is a fatal disorder of Belgian horses and related
     European breeds that results in the birth of foals with skin and mouth lesions that
     are present or develop within the first few days of life.
     A – JEB (Junctional Epydermolysis Bulosa)
     S - HIIH 1095-2

16)  BONUS
     Q – List three (3) of the four (4) major factors that would cause a growing horse to
devvelop DOD (developmental orthopedic diseases).
     A - 1) rapid growth 2) trauma to the bone growth plates or articular cartilages 3) genetic
     predisposition 4) nutritional imbalances
     S - Lewis2 283

17)  Q - What process provides the energy for muscle contractions?
     A - The breakdown of high-energy phosphate bonds in ATP
     S - Evans2 101
18)  Q - What type of shoe is used on western pleasure horses to keep the feet closer to the ground, which allows the horse to have a freer, longer stride?
   A - Aluminum
   S - HIH 515-4

19)  Q - What is "histogenesis"?
   A - The process of tissue formation
   S - EqSci 73

20)  TOSS-UP WITH BONUS ATTACHED
   Q - What is a spasmodic muscle contraction that produces heat, especially in cold weather?
   A - Shivering
   S - Evans2 104

21)  BONUS
   Q - Blind stagger is caused by three (3) types of poisonings in horses. Name two (2) types.
   A - Locoweed, excess selenium and moldy corn poisoning
   S - Lewis2 357

22)  Q - From a reproductive standpoint, why are stallions put under artificial lights?
   A - To increase testicular activity
   S - HIH 920-3
23) Q - What Spanish based breed of horse was used to formulate the Quarter Horse, the American Saddle Horse and the Tennessee Walking Horse breeds?
A - The Chicasaw
S - Evans 29

24) Q - What do the initials “EIPH” stand for?
A - Exercise Induced Pulmonary Hemorrhage
S - EqSci 278

25) Q - Give another common name for large Strongyles.
A - Bloodworms
S - Lewis 2 154

26) TOSS-UP WITH BONUS ATTACHED
Q - Name the organization that was the first in the United States to set up an accurate identification system for horses.
A - The Jockey Club
S - EqSci 321

27) BONUS
Q - Name five (5) of the seven (7) committees of the American Horse Council.
A - Government affairs, racing, showing, health and regulatory, animal welfare, recreation, and state horse council committee.
S - HIH 1910-1

28) Q - What class of horses have the greatest calcium needs?
A - Young animals and lactating mares
S - Evans 2 226
29) Q – What type of insurance includes theft, transit and limited emergency colic surgery?
   A – Equine Full Mortality
   S – EqSci 451

30) Q - How is the encephalitis virus transmitted to the horse?
    A – By blood sucking arthropods, mainly mosquitoes
    S – Lewis2 169

31) Q – What supports and holds the tendons in place?
    A - Anular Ligaments
    S - CAHA2 (35)

32) Q – What is the only draft horse breed that originated in the United States?
    A – American Cream Draft Horse
    S – HIH 163-1

END OF ROUND SEVEN
2012 District Horse Bowl Contest
Senior EIGHT

ONE-ON-ONE QUESTIONS
1) C1  Q - Name the genetic disease that traces back to the Quarter Horse stallion Poco Bueno.
   A – HERDA (hereditary equine regional dermatosparaxis asthenia) or HC (Equine Hyperclastosis cutis)
   S - HIH 675-1

2) C2  Q - What is “hyperlipemia”?
   A - Unusually high levels of fat in the blood
   S - Evans2 406

3) C3  Q - What are two (2) things that the vestibulocochlear nerve is responsible for?
   A - Hearing and balance
   S - CAHA2 78

4) C4  Q - How many different coat patterns are accepted by the Appaloosa breed?
   A – Eight
   S - Evans2 34

5) C1  Q - What disease is described as an incompatibility between the mare's and foal's blood group that results in foal anemia and destruction of the foal's red blood cells by the mare's immune system?
   A - Neonatal isoerythrolysis or NI
   S - EqSci (02
6) C2  Q - In what state was the first American racetrack built?
   A - New York
   S - Evans2 117

7) C3  Q - What is a bowed tendon?
   A - Inflammation of the superficial and/or deep digital flexor tendons sheaths resulting in swelling behind the cannon bones
   S - Lewis2 383

8) C4  Q - What are the two (2) basic styles of traditional pack saddles?
   A - Crossbuck and decker
   S - HIH 1125-1

9) C1  Q - What ligament connects the splint bone to the cannon bone?
   A - The interosseous ligament
   S - IDET 154

10) C2  Q - Explain why foxtail barley and bristle grass are not desirable for horse pasture.
    A - They can become embedded in the mucous membranes of the cheeks, tongue and gums; causing ulcers, excessive salivation and difficulty in eating.
    S - Lewis2 30

11) C3  Q - What is thrombus?
    A - Another name for an intravascular clot
    S - Evans2 624
12) C4 Q - When rotating pastures, how long should horses be removed from the pasture before returning to the same pasture in order to maintain a good forage regrowth?
   A - At least 4 weeks
   S - AYHCLM 220-5

TOSS-UP QUESTIONS

13) Q - The carpus consists of how many and what type of bones?
    A - 8 short bones
    S - Evans2 97

14) Q - What enzyme is secreted by the pancreas into the small intestine and enhances protein digestion?
    A - Trypsin
    S - Lewis2 407

15) TOSS-UP WITH BONUS ATTACHED
    Q - How many lobes make up the right and left lungs?
    A - Right- 3, Left-2
    S - Evans2 105

16) BONUS
    Q - What are the seven (7) macrominerals required by the horse?
    A - Calcium, chloride, magnesium, phosphorus, potassium, sodium, sulfur
    S - EqSci 131
17) Q - What is the medical term for inflammation of the intestines?
   A – Enteritis
   S – Evans2 557

18) Q – Name the chemical substance secreted by the blister beetle that is poisonous to the horse.
   A - Cantharid
   S - AYHCLM (415-9)

19) Q – At what university did the nation’s first veterinary college open at in 1868?
   A – Cornell University
   S – EqSci 14

20) TOSS-UP WITH BONUS ATTACHED
    Q - Name one (1) activity in which a horse would use type IIB fibers.
    A – Sprinting, jumping or cutting
    S – EqSci 115

21) BONUS
    Q - Name three (3) factors that can cause a mature horse to eat feces.
    A - high-grain diet, protein-deficient diet, boredom
    S - Lewis2 376
22) Q – Fill in the blank. The trachea divides into the left and right ________.
   A – Bronchi
   S - Evans2 105

23) Q - What was the first association formed for an American breed of horse?
   A - The American Saddlebred Horse Association
   S - HIH 156-1

24) Q - What is known as the volume of air inspired or expired during each breathing cycle and is approximately six (6) liters?
   A – Tidal volume
   S - Evans2 109

25) Q – Specifically, why did Secretariat run faster than the average racehorse?
   A – He spent less time with his legs in the stance and overlap phase. In other words, his legs completed their ground contact quicker and more time was spent in the suspension phase.
   S – EqSci 118

26) TOSS-UP WITH BONUS ATTACHED
   Q - What is the clear, colorless fluid that is moved toward the venous system through a series of valves by pressure formed when muscles contract?
   A – Lymph
   S – Evans2 112
27) **BONUS**

Q - What are the three (3) joints of the hock?
A - Tarsocural or tibiotalar, intertarsal, tarsometatarsal
S - Lewis 2 120

28) **Q - How and why was the Cooperative Extension Service established?**
A - Established by the Smith-Lever Act of 1914 as way to distribute new research information to the states
S - HIH 130-1

29) **Q - Foals are considered to be premature if they are born before how many days of gestation?**
A - 320 days
S - EqSci 275

30) **Q - What plant contains an anti-thiamine compound and may induce a thiamin deficiency in horses?**
A - Bracken fern
S - Evans 2 242

31) **Q - The oldest of American horse breeds, this light horse is compact and muscular, with a refined body and chiseled face. The foundation sire was named after his owner. What is the breed?**
A - Morgan
S - HIH 151-1,2
32) **Q** – What are the three (3) broad categories of infectious diseases?

   **A** – Parasitic, bacterial and viral

   **S** – EqSci 276

**END OF ROUND EIGHT**