

**2012 District Horse Bowl  
Mixed Division  
Round One**

- 1) **Q: This breed is known as the breed of blacks and grays because approximately half are black and half are gray.**  
A: Percheron  
Source: Evans2 69
  
- 2) **Q: How much of the genetic material of a foal is contributed by the sire?**  
A: 0.5, 50%, half  
Source: HIH 1020-1
  
- 3) **Q: The three (3) most common colors of horses are bay, black and chestnut. Is chestnut recessive or dominant to both black and bay?**  
A: Recessive  
Source: AYHC 1040-1
  
- 4) **Q: What organ is also known as the “fermentation vat?”**  
A: Cecum  
Source: EqSci 112
  
- 5) **Q: In feet, what is the minimum recommended size of a box stall for a horse?**  
A: 10 ft by 10 ft  
Source: AYHC 320-3
  
- 6) **Q: What is the technical name for overheating, heat exhaustion, heat cramps, heat stroke or sunstroke?**  
A: Hyperthermia  
Source: AYHC 410-1
  
- 7) **Q: What is an obligate parasite?**  
A: A type of parasite that lives away from its host  
Source: AYHC 415-1

- 8) **Q: The B complex vitamins and vitamin C are classified as what type of vitamin?**  
**A:** Water-soluble vitamins  
**Source:** EqSci 122
- 9) **Q: What is meant by the saying “feed a horse by weight and not volume”?**  
**A:** You should weight all feeds because different feedstuffs weigh different amounts  
**Source:** Evans2 253
- 10) **Q: What is the test for EIA or Equine Infectious Anemia?**  
**A:** Coggins Test  
**Source:** HIH 1060-5
- 11) **Q: What is the purpose of the dressage saddle?**  
**A:** To give the rider optimum leg contact with the horse  
**Source:** AYHCLM B 112-2L
- 12) **Q: What is a conformational fault which manifests itself in a faulty flight of the foot, resulting in a tendency to paddle?**  
**A:** Toed-in or pigeon toed  
**Source:** Evans2 151
- 13) **Q: What inherited disease of Quarter Horses is transmitted by an autosomal dominant mode of inheritance?**  
**A:** HYPP (Hyperkalemic periodic paralysis)  
**Source:** HIH 1060-6
- 14) **Q: How long does it take for a foal’s immune system to become functional and able to produce significant levels of antibodies to guard against diseases?**  
**A:** 2 to 4 months  
**Source:** AYHCLM B 112-2L
- 15) **Q: Name two (2) types of soft tissue that control the action of the bones in the horse’s legs.**  
**A:** Ligaments and tendons  
**Source:** Evans2 98

16) **Q: Name two (2) types of martingales.**

**A:** Running, standing, Irish, German

**Source:** HIH 1100-10

17) **Q: Horses with sickle hocks are predisposed to what blemish?**

**A:** Curbs

**Source:** AYHCLM I229-2L

18) **TOSS UP WITH BONUS ATTACHED**

**Q: The integumentary system of the horse refers to what body part?**

**A:** Skin

**Source:** Evans2 128

19) **BONUS**

**Q: Name four (4) leg markings.**

**A:** coronet, pastern, ankle, sock or half stocking, stocking, white marks on coronet or heel, distal spots

**Source:** Evans2 82

20) **Q: Name the three (3) basic parts of a bridle.**

**A:** Headstall, bit, reins

**Source:** HIH 1100-6

21) **Q: What internal parasite is also referred to as a “bloodworm?”**

**A:** Strongyles

**Source:** CAHA 60

22) **TOSSUP WITH BONUS ATTACHED**

**Q: The body of the horse is made up of many systems. Which system includes the brain, spinal cord, and associated nerves and special senses?**

**A:** The nervous system

**Source:** Evans2 89

23) **BONUS**

**Q: Name three (3) purposes of a saddle blanket.**

**A:** 1. Protect the horse's back, 2. Absorb sweat and moisture, 3. Protect the saddle, 4. Helps saddle fit better

**Source:** AYHCLM B 108-2L

24) **Q: Filing off the sharp edges or points on horses' molars, so that they don't inhibit thorough chewing, is called what?**

**A:** Floating the teeth

**Source:** HIH 110-4-5

25) **Q: Describe a half stocking or a sock on a horse.**

**A:** White hair extends from the coronet band to the middle of the cannon bone.

**Source:** Evans2 83

26) **Q: What prefix means "below normal?"**

**A:** Hypo

**Source:** Lewis2 393

27) **TOSSUP WITH BONUS ATTACHED**

**Q: What is a young horse, less than 6 months old, called?**

**A:** Foal

**Source:** HIH 110-5

28) **BONUS**

**Q: What are the two (2) options available if a horse tests positive on the Coggins test?**

**A:** 1. Horse is freeze branded & kept in quarantine; 2. Horse is euthanized

**Source:** Lewis2 175

29) **Q: What is a "symptom?"**

**A:** SUBJECTIVE evidence of a health issue perceived by an observer

**Source:** EqSci 166

- 30) **Q: Define equestrian.**  
**A:** One who ride horseback  
**Source:** HIH 110-5
- 31) **Q: What does “LSD” stand for in the initial stage of horse conditioning?**  
**A:** Long, slow distance  
**Source:** Lewis2 203
- 32) **Q: The actual cause of heaves is unknown, but this condition is most often associated with the ingestion of what?**  
**A:** Damaged, dusty, or moldy hay  
**Source:** Evans2 232

**END OF ROUND ONE**

**2012 District Horse Bowl  
Mixed Division  
Round Two**

- 1) **Q: What part of the horse is used in measuring height?**  
A: Withers  
Source: Evans2 151
  
- 2) **Q: What must a horse do to see far away objects?**  
A: Lower its head  
Source: HIH 1220-1
  
- 3) **Q: Fender, back jockey, cantle and pommel are all parts of a what?**  
A: Saddle  
Source: AYHC 1100-2
  
- 4) **Q: What is an infection that penetrates the white line of the sole and travels under the hoof wall between the sensitive and insensitive laminae until it abscesses at the coronet called?**  
A: Gravel  
Source: Evans2 167
  
- 5) **Q: What is the minimum height that a perimeter pasture fence must be, in feet?**  
A: 5 feet high (6 feet or more with taller breeds)  
Source: HIH 350-1
  
- 6) **Q: Amino acids that cannot be synthesized in sufficient quantities by the horse's body are called what?**  
A: Essential amino acids  
Source: EqSci 118
  
- 7) **Q: What gland is affected by goiter?**  
A: Thyroid gland  
Source: Evans2 233

- 8) **Q: What is the average body temperature of the horse, in degrees Fahrenheit?**  
**A:** 100-101.5°F  
**Source:** HIH 425-1
- 9) **Q: Name two (2) types of bedding material suitable for horses.**  
**A:** Straw, shavings, sawdust, recycled newsprint  
**Source:** AYHC 330-1&2
- 10) **Q: Describe a properly fitted stirrup iron.**  
**A:** The width of the iron should be 1" wider than the rider's foot.  
**Source:** Evans2 659
- 11) **Q: How often should a horse get shod?**  
**A:** Every 4-6 weeks  
**Source:** HIH 525-2
- 12) **Q: What is the common name for *Parascaris equorum*?**  
**A:** Ascarids or roundworms  
**Source:** AYHC 430-1
- 13) **Q: What was the first "true horse?"**  
**A:** Equus  
**Source:** EqSci 6
- 14) **Q: What tool is used for cleaning out the bottom of a horse's foot?**  
**A:** Hoof pick  
**Source:** HIH 530-1
- 15) **Q: Name the disease caused by *Clostridium tetani*.**  
**A:** Tetanus  
**Source:** AYHC 445

16) **Q: What color eyes do white horses have?**

**A:** Dark-colored eyes

**Source:** EqSci 45

17) **Q: What is encephalitis?**

**A:** Inflammation of the brain

**Source:** HIH 625-1

18) **TOSS UP WITH BONUS ATTACHED**

**Q: What system is used to grade the severity of lameness in horses?**

**A:** Obel Grade System

**Source:** AYHC 640-2

19) **BONUS**

**Q: What is a non-ruminant herbivore and give one (1) example of a non-ruminant herbivore other than a horse.**

**A:** Eats fibrous foods (roughages) and do not have a rumen with bacteria to help utilize fiber. Examples are rabbit, guinea pig.

**Source:** Evans2 189

20) **Q: What respiratory disorder affects the exercise tolerance of horses and is commonly known as heaves?**

**A:** COPD- Chronic Obstructive Pulmonary Disease

**Source:** HIH 810-3

21) **Q: Where are spermatozoa produced?**

**A:** Testes

**Source:** AYHC 920-1

22) **TOSSUP WITH BONUS ATTACHED**

**Q: What are the three (3) categories of muscles?**

**A:** Smooth, cardiac, and skeletal

**Source:** HIH 840-1



23) **BONUS**

**Q: List three (3) reasons for castrating a male horse.**

**A:** Eliminated need for separate stallion turnout paddock, improves attitude, protects gene pool, minimizes risk of injury

**Source:** Evans2 385

24) **Q: What mosquito-borne virus was first detected in the United States in August of 1999?**

**A:** West Nile Encephalitis

**Source:** HIH 665-1

25) **Q: Where in the body is spermatozoa stored?**

**A:** Epididymis

**Source:** AYHC 920-6

26) **Q: What does "SCID" stand for?**

**A:** Severe combined immunodeficiency disease

**Source:** EqSci 99

27) **TOSSUP WITH BONUS ATTACHED**

**Q: After exposure to strangles, when may signs of the disease begin to be seen?**

**A:** 2-14 days after exposure

**Source:** HIH 615-1

28) **BONUS**

**Q: What two (2) breed types are excluded from the Palomino Registry?**

**A:** Pony and Draft breeds

**Source:** Evans2 49

29) **Q: What is the major cause of infertility in the mare?**

**A:** Uterine infection

**Source:** AYHC 940-1

30) **Q: Name the horse color that is a grayish-blue mouse color with possible black points and a dorsal stripe.**

**A:** Grullo

**Source:** HIH 140-1

31) **Q: Name a function of a stall guard.**

**A:** Allows for more air circulation into a stall, and allows the horse to hang its head over or out of a stall with a solid door

**Source:** AYHC 1100-12

32) **Q: What is the term for the degree of expression of a trait for which an animal has the gene?**

**A:** Penetrance

**Source:** AYHC 1060-2

**END OF ROUND TWO**

**2012 District Horse Bowl  
Mixed Division  
Round Three**

- 1) **Q: Other than grasses and cereal grain hay, what is the third type of hay fed to horses?**  
**A:** Legumes  
**Source:** Lewis2 63
  
- 2) **Q: Why should young horses graze separately from older horses?**  
**A:** Younger horses have a higher susceptibility to parasites  
**Source:** HIH 365-6
  
- 3) **Q: What is the difference between the true and false ribs?**  
**A:** True ribs are attached to the sternum by means of cartilage and false ribs are connected by cartilage to each other.  
**Source:** Evans2 97
  
- 4) **Q: Luteinizing hormone, follicle stimulating hormone and oxytocin are secreted from what gland at the base of the brain?**  
**A:** Pituitary  
**Source:** Lewis2 400
  
- 5) **Q: What genetic condition causes a defect in the movement of potassium and sodium in and out of muscle and therefore causes horses to sometimes have muscle tremors and weakness?**  
**A:** HYPP  
**Source:** HIH 1060-5
  
- 6) **Q: How many chromosomes does Przewalski's horse have?**  
**A:** 66  
**Source:** Evans2 449

- 7) **Q: What are the third metacarpal and third metatarsal commonly known as?**  
**A:** Cannon bones  
**Source:** Lewis2 120
- 8) **Q: Name two (2) of the five (5) nutrition-based classes of horses.**  
**A:** Maintenance, Pregnancy, Lactation, Growth and work  
**Source:** HIH 750-6
- 9) **Q: What color results as a double dilution of bay?**  
**A:** Perlino  
**Source:** Evans2 81
- 10) **Q: The most widely used type of reproductive hormone therapy in mare management is called what?**  
**A:** Prostaglandin F-2-Alpha  
**Source:** AYHC 930-3
- 11) **Q: Equine abortion virus is known today as what?**  
**A:** Equine herpes virus 1  
**Source:** HIH 610-1
- 12) **Q: What was the Suffolk horse originally called because of their rather rounded, punched-up appearance?**  
**A:** The Suffolk Punch  
**Source:** Evans2 73
- 13) **Q: What stimulus induces the growth of a horse's winter hair coat?**  
**A:** Shortened photo period (day light)  
**Source:** AYHCLM A 304-2L
- 14) **Q: What is another name for roundworms?**  
**A:** Ascarids  
**Source:** HIH 430-1

- 15) **Q: To what phylum does the modern horse belong?**  
**A:** Chordata  
**Source:** EqSci 15
- 16) **Q: What joint is located between the cannon and pastern bones?**  
**A:** Fetlock joint  
**Source:** Evans2 150
- 17) **Q: Where was the American Quarter Horse Association developed?**  
**A:** Fort Worth, Texas  
**Source:** HIH 153-1
- 18) **TOSS UP WITH BONUS ATTACHED**  
**Q: What vitamin is also known as the “sunshine vitamin?”**  
**A:** Vitamin D  
**Source:** EqSci 123
- 19) **BONUS**  
**Q: What four (4) organs make up the hindgut of the horse?**  
**A:** Cecum, Large colon, small colon and rectum  
**Source:** HIH 710-2
- 20) **Q: What is the tallest a horse can be to be registered with the American Miniature Horse Association?**  
**A:** 34 inches  
**Source:** HIH 154-1
- 21) **Q: Who was the foundation sire of the Pony of the Americas?**  
**A:** Black Hand Number 1  
**Source:** Evans2 59

**22) TOSSUP WITH BONUS ATTACHED**

**Q: If a broodmare is unvaccinated for tetanus at the time of foaling, what form of the tetanus vaccine should be given to the foal at birth?**

**A:** Tetanus antitoxin

**Source:** AYHC 950-10

**23) BONUS**

**Q: What three (3) electrolytes are essential for fluid balance, nerve and muscle function, and acid-base balance?**

**A:** Sodium, potassium, and chloride

**Source:** HIH 820-2

**24) Q: What breed is most readily identified by a finely chiseled head and dished face, long arching neck, high tail carriage and small build?**

**A:** Arabian

**Source:** HIH 150-1

**25) Q: What is another term for the external prepuce of the male horse?**

**A:** Sheath

**Source:** Evans2 355

**26) Q: Name a conformation fault that predisposes a horse to ringbone.**

**A:** Base wide, Base narrow, Toe-in, Toe-out

**Source:** AYHC 220-6

**27) TOSSUP WITH BONUS ATTACHED**

**Q: What do the initials "CRT" stand for and what should a normal CRT be?**

**A:** Capillary Refill Time; 1-3 seconds

**Source:** EqSci 163

**28) BONUS**

**Q: In reference to horses give (2) definitions of the term "bolt."**

**A:** 1. To eat fast - usually grain; 2. Take off, running straight ahead.

**Source:** Lewis2 382

- 29) **Q: What is the main purpose of vitamin K in the horse?**  
**A:** Responsible for proper blood clotting  
**Source:** EqSci 125
- 30) **Q: During evolution the horses eye has moved from the front of the horses head to where?**  
**A:** The side  
**Source:** HIH 220-4
- 31) **Q: Approximately how many weeks does peak lactation occur after parturition?**  
**A:** 8-12 weeks  
**Source:** Evans2 296
- 32) **Q: What is another term for “sow-mouthed” or “prognathia?”**  
**A:** Monkey-mouth  
**Source:** Lewis2 396

**END OF ROUND THREE**

**2012 District Horse Bowl  
Mixed Division  
Round Four**

- 1) **Q: Name three (3) places where a horse can be found and purchased.**  
**A:** Local breeders, local trainers, horse agent/traders, horse auction, veterinarian, boarding/training stables, farrier, and/or bulletin boards - feed & tack stores  
**Source:** AYHC 324-2L
  
- 2) **Q: What term describes a group of horses with certain distinguishable characteristics, such as conformation, function and color?**  
**A:** Breed  
**Source:** Evans2 16
  
- 3) **Q: The short estrus period a mare undergoes shortly after foaling is called what?**  
**A:** Foal heat  
**Source:** HIH 940-5
  
- 4) **Q: Movement of air into and out of the lungs is referred to as what?**  
**A:** Respiration  
**Source:** Evans2 108
  
- 5) **Q: What is another name for vitamin B<sub>1</sub>?**  
**A:** Thiamin  
**Source:** EqSci 126
  
- 6) **Q: What is the recommended covering for the floor in a horse trailer?**  
**A:** Rubber mats  
**Source:** AYHC 1155-2
  
- 7) **Q: Name the natural gait that has a speed of 2-4 mph, and has four beats.**  
**A:** Walk  
**Source:** Lewis2 390



- 8) **Q: How many diploid chromosomes does a horse have?**  
**A:** 64  
**Source:** Evans2 449
- 9) **Q: What is another name for pinchers when referring to farrier's tools?**  
**A:** Pull-offs  
**Source:** AYHC 530-1
- 10) **Q: What is the difference between parrot mouth and overshot jaw?**  
**A:** There is no difference  
**Source:** Lewis2 400
- 11) **Q: Name the genus of the living members of the horse family.**  
**A:** *Equus*  
**Source:** Evans2 13
- 12) **Q: The terms "mottled," "frost," and "speckled" refer to what?**  
**A:** Appaloosa coat color patterns  
**Source:** EqSci 51
- 13) **Q: What is sweet feed?**  
**A:** Grain mix that contains molasses  
**Source:** Lewis2 405
- 14) **Q: How many furlongs are in a one and one half mile race?**  
**A:** 12 furlongs  
**Source:** Evans2 139
- 15) **Q: What is the basic unit of inheritance?**  
**A:** Gene  
**Source:** AYHC 1020-1

- 16) **Q: What is the technical term for chewing?**  
**A:** Mastication  
**Source:** EqSci 109
- 17) **Q: Excessive jerking of the hind legs characterizes what common unsoundness?**  
**A:** Stringhalt  
**Source:** Evans2 164
- 18) **TOSS UP WITH BONUS ATTACHED**  
**Q: Since gray color has a dominant gene, each gray horse must have at least one (1) parent of what color?**  
**A:** Gray  
**Source:** AYHC 1040-3
- 19) **BONUS**  
**Q: Name two (2) light breeds of horse that originated in Germany.**  
**A:** Trakehner, Hanoverian, Holstein  
**Source:** Evans2 74
- 20) **Q: Death of a horse can result from ingestion of what insect in alfalfa hay?**  
**A:** Blister beetle  
**Source:** Lewis2 364
- 21) **Q: Which common forage plant in the southeast often is infected with a fungus which can cause abortions, still births and lack of milk production in mares?**  
**A:** Fescue  
**Source:** Evans2 179
- 22) **TOSSUP WITH BONUS ATTACHED**  
**Q: What coat color pattern is associated with the lethal white foal syndrome?**  
**A:** Overo  
**Source:** AYHC 1040-3

23) **BONUS**

**Q: The epididymis can be divided into three (3) segments. Name these segments?**

**A:** Caput (head), Corpus (body), and Cauda (tail)

**Source:** AYHC 920-4

24) **Q: What macro-mineral is the partner mineral to phosphorus?**

**A:** Calcium

**Source:** EqSci 132

25) **Q: What is a chronic infection of the frog which produces foul smelling dead tissue?**

**A:** Thrush

**Source:** CAHA 24

26) **Q: What is the English version of the western breast collar called?**

**A:** Breastplate

**Source:** AYHC 1100-12

27) **TOSSUP WITH BONUS ATTACHED**

**Q: A blemish takes away from the physical attractiveness of the horse, while defects in form or function that interfere with the usefulness of the horse are known as what?**

**A:** Unsoundness

**Source:** Evans2 156

28) **BONUS**

**Q: Give two (2) reasons for why hay and straw bedding should be stored in a barn at least 100 feet from any other structure.**

**A:** It is combustible in nature and it can be very dusty

**Source:** Evans2 781

29) **Q: Name two (2) primitive-type markings.**

**A:** Dorsal stripe, wither stripe, zebra marks, cobwebbing (or spider-webbing)

**Source:** EqSci 38

30) **Q: What are genetic traits called that are controlled by multiple genes, gene pairs, and/or alleles?**

**A:** Polygenic traits

**Source:** EqSci 91

31) **Q: Name an equine rickettsial disease.**

**A:** Equine Ehrlichiosis or Potomac Horse Fever

**Source:** EqSci 175

32) **Q: What breed of horse is the tallest of the draft horse breeds?**

**A:** Shire

**Source:** Evans2 73

**END OF ROUND FOUR**

**2012 District Horse Bowl  
Mixed Division  
Round Five**

- 1) **Q: “Hay belly” may be an indication of an excess of what in the horse’s diet?**  
**A:** Fiber  
**Source:** Lewis2 4
  
- 2) **Q: Which breed has mottled skin on the muzzle?**  
**A:** Appaloosa  
**Source:** HIH 140-1
  
- 3) **Q: What are the horse’s two (2) choices in response to fear?**  
**A:** Fight or flight  
**Source:** Lewis2 376
  
- 4) **Q: The skeletal system is made up of how many bones?**  
**A:** 205  
**Source:** Evans2 182
  
- 5) **Q: What is “biosecurity?”**  
**A:** Keeping biological (living) things from being infected with agents that can cause health and disease issues  
**Source:** EqSci 193
  
- 6) **Q: What is another commonly used name for Moldy Corn Disease?**  
**A:** Blind Staggers  
**Source:** Lewis 2 357
  
- 7) **Q: Who was one of the first breeders of jacks?**  
**A:** George Washington  
**Source:** Evans2 77

- 8) **Q: *Streptococcus equi* infection is one of the oldest described horse diseases. What is the common name for this condition?**  
**A:** Strangles  
**Source:** HIH 615-1
- 9) **Q: Stallions can be put into breeding service at how many years of age?**  
**A:** 2-3 years of age  
**Source:** Lewis2 225
- 10) **Q: What group reintroduced the horse to North America approximately five-hundred (500) years ago?**  
**A:** The Spanish Explorers  
**Source:** EqSci 10
- 11) **Q: What provides the hoof's strong structural support?**  
**A:** It's conical shape  
**Source:** HIH 505-2
- 12) **Q: A mare that has never been bred before is called what?**  
**A:** Maiden  
**Source:** Lewis2 230
- 13) **Q: What is another name for Equine Infectious Anemia?**  
**A:** Swamp Fever  
**Source:** Evans2 600
- 14) **Q: All Exmoor Ponies have what color coat?**  
**A:** Brown  
**Source:** HIH 169-1
- 15) **Q: What leg blemish can occur as a result of repeated kicking of the stall?**  
**A:** Capped hock  
**Source:** Lewis2 384

- 16) **Q: What mineral is an essential component of the hemoglobin of the red blood cells?**  
**A: Iron**  
**Source:** Evans2 233
- 17) **Q: What is the only mineral for which the horse has a defined appetite?**  
**A: Sodium (chloride) or salt**  
**Source:** Lewis2 25
- 18) **TOSS UP WITH BONUS ATTACHED**  
**Q: Equine Night Blindness primarily affects what breed of horse?**  
**A: Appaloosa**  
**Source:** EqSci 100
- 19) **BONUS**  
**Q: Colostrum contains high quantities of what three (3) vitamins?**  
**A: A, D, and E**  
**Source:** Lewis2 47
- 20) **Q: What disease is caused by a metabolic imbalance resulting from disturbed hormone production? This disease is characterized by an abnormal hair coat, frequent urination, obesity and muscle weakness.**  
**A: Equine Cushing's Disease**  
**Source:** EqSci 181
- 21) **Q: Name one (1) physical trait that disqualifies a Morgan from registration.**  
**A: Natural white above the hock (other than on the face) or blue eye**  
**Source:** HIH 151-1
- 22) **TOSSUP WITH BONUS ATTACHED**  
**Q: Osteochondrosis is caused by an excess of what mineral?**  
**A: Calcium**  
**Source:** Lewis2 24

23) **BONUS**

**Q: What are three (3) possible causes of founder?**

**A:** Overeating grain, hot horse consuming lots of cold water, fresh green forage, infection

**Source:** Lewis2 390

24) **Q: Where is approximately 99% of the total body calcium contained?**

**A:** The skeleton

**Source:** Evans2 221

25) **Q: What is the physical barrier between the vagina and the uterus?**

**A:** The cervix

**Source:** HIH 910-1

26) **Q: What percentage of energy used by the horse is given off as heat?**

**A:** 75-80%

**Source:** Lewis2 199

27) **TOSSUP WITH BONUS ATTACHED**

**Q: What is "pre-cecal digestion?"**

**A:** Digestion that occurs prior to the cecum.

**Source:** EqSci 145

28) **BONUS**

**Q: What is a cataract and what does this condition result in?**

**A:** Cloudiness of the lens in the eye; results in blindness

**Source:** HIH 1060-5

29) **Q: What is the most important way to improve the appearance of the hair coat?**

**A:** Frequent and thorough grooming

**Source:** Lewis2 180

30) **Q: When viewed from the side, the horse's head should be what shape?**

**A:** Triangular

**Source:** Evans2 141



**31) Q: What is the name for a pus pocket or an infection in the sensitive structures of the foot?**

**A: An abscess**

**Source: HIH 540-2**

**32) Q: In what part of the horse's digestive tract would you find pin worms?**

**A: Colon and rectum**

**Source: Lewis2 158**

**END OF ROUND FIVE**

**2012 District Horse Bowl  
Mixed Division  
Round Six**

- 1) **Q: At what gait is lameness most visible?**  
A: Trot  
Source: HIH 455-1
  
- 2) **Q: What is a cross between a stallion and a jennet called?**  
A: A hinny  
Source: Evans2 449
  
- 3) **Q: What term is used to describe a horse that has too much slope to its pasterns?**  
A: Coon-footed  
Source: AYHCLM I223-2L
  
- 4) **Q: Mange is a type of disease that affects what part of the body?**  
A: Skin  
Source: HIH 415-8
  
- 5) **Q: How many bones make up the knee or carpus?**  
A: 7 or 8  
Source: Evans2 684
  
- 6) **Q: Fats are made up of what three (3) types of molecules?**  
A: Carbon, hydrogen and oxygen  
Source: EqSci 147
  
- 7) **Q: What is it called when a horse's knee is set too far forward in relation to the leg?**  
A: Over at the knee or buck-kneed  
Source: HIH 230-5

- 8) **Q: Rhinopneumonitis is also referred to as what?**  
**A:** Equine Herpesvirus (strains 1 & 4)  
**Source:** EqSci 178
- 9) **Q: What is used to remove the surplus growth of hoof wall?**  
**A:** Hoof nippers  
**Source:** AYHCLM B116-1L
- 10) **Q: What breed is known as “the horse with the fine walk?”**  
**A:** Paso Fino  
**Source:** HIH 161-1
- 11) **Q: What type of animal does the ADMS register?**  
**A:** Donkeys and Mules  
**Source:** Evans2 97
- 12) **Q: What does a skin pliability test determine?**  
**A:** Dehydration  
**Source:** AYHCLM B104-2L
- 13) **Q: What Indian tribe is credited for being the first Appaloosa breeders?**  
**A:** Nez Perce  
**Source:** HIH 158-1
- 14) **Q: What are the molars used for?**  
**A:** Grinding food  
**Source:** Evans2 93
- 15) **Q: What is the western version of a standing martingale?**  
**A:** Tie-down  
**Source:** AYHCLM B108-3L

- 16) **Q: Give one (1) breed of horse in which Hemophilia A is commonly found in.**  
**A:** Thoroughbred, Standardbred and the Quarter Horse  
**Source:** EqSci 99
- 17) **Q: In hertz, what is the normal equine hearing range?**  
**A:** 55 hertz to 33.5 kilohertz  
**Source:** EqSci 64
- 18) **TOSS UP WITH BONUS ATTACHED**  
**Q: At what age do wolf teeth normally erupt?**  
**A:** 5-6 months  
**Source:** AYHCLM I204-1L
- 19) **BONUS**  
**Q: The Thoroughbred breed can be traced back to which three (3) foundation sires?**  
**A:** Darley Arabian, Godolphin Arabian and the Byerly Turk  
**Source:** HIH 157-1
- 20) **Q: Name the joint between the femur and the tibia.**  
**A:** The stifle  
**Source:** Evans2 91-98
- 21) **Q: What vitamin needed for vision, especially night vision, and is also an antioxidant that helps to prevent damage to cells?**  
**A:** Vitamin A  
**Source:** EqSci 123
- 22) **TOSSUP WITH BONUS ATTACHED**  
**Q: What type of shoe is commonly 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  
**Source:** HIH 515-4

23) **BONUS**

**Q: What is the orbital cavity and why is it important?**

**A:** It is the bony socket that surrounds the eye for protection

**Source:** Evans2 90

24) **Q: What is the proper name for a horse's front teeth?**

**A:** Incisors

**Source:** AYHCLM I205-1L

25) **Q: Horses with what hoof condition will, when moving, land on the toe to avoid concussion to the heel?**

**A:** Navicular

**Source:** HIH 455-2

26) **Q: What type of bones function as levers and aid in support of weight and locomotion?**

**A:** Long bones

**Source:** Evans2 90

27) **TOSSUP WITH BONUS ATTACHED**

**Q: Food travels through the esophagus from the mouth to the stomach through the esophagus in only one direction. By what process does this occur?**

**A:** Peristalsis

**Source:** EqSci 109

28) **BONUS**

**Q: Name three (3) things that influence the style of horseshoe used.**

**A:** Type of work, terrain worked on, integrity of the hoof, size and weight of horse, variety of ground surface patterns available

**Source:** AYHCLM I221-2L

29) **Q: What color are the hooves of a foal at birth?**

**A:** Crème or white

**Source:** Evans2 82

- 30) **Q: What helps reduce swelling of the udder?**  
**A:** Exercise  
**Source:** HIH 940-6
- 31) **Q: What is the base color of a strawberry roan?**  
**A:** Chestnut  
**Source:** Evans2 81
- 32) **Q: What is the periople?**  
**A:** The varnish-like protective outer layer on the hoof  
**Source:** 4H H&H 45

**END OF ROUND SIX**

**2012 District Horse Bowl  
Mixed Division  
Round Seven**

- 1) **Q: Name three (3) characteristics of a cremello horse.**  
A: pink skin, blue eyes, basic coat color is cream. The very palest coat color dilution that is not white.  
S: EqSci (43)
- 2) **Q: What is another name for the “plantation gait” of the Tennessee Walker?**  
A: Running Walk  
S: Evans2 (178)
- 3) **Q: What region of the world was the donkey most likely domesticated?**  
A: Middle East or Egypt  
S: EqSci (16)
- 4) **Q: What is the scientific name for the bacteria that causes tetanus?**  
A: *Clostridium tetani*  
S: HIH (645-1)
- 5) **Q: What are often referred to as “the building blocks of the body?”**  
A: Amino Acids  
S: EqSci 117
- 6) **Q: What is a “hot-blooded” horse?**  
A: A horse of Arabian decent  
S: EqSci 24
- 7) **Q: What breed has been called the Prince of Ponies?**  
A: Hackney Pony  
S: Evans2 (61)
- 8) **Q: Name one (1) of the two (2) plants that are the primary source of molasses fed to horses in the United States.**  
A: Sugar cane and beets  
S: Lewis2 (98)
- 9) **Q: What is the art of gymnastics on horseback?**  
A: Vaulting  
S: HIH (185D-1)
- 10) **Q: Define the term “Hippology.”**  
A: The study of the horse  
S: IDET (140)

- 11) **Q: What is the most common lameness in driving horses?**  
A: Inflammation of the hock  
S: Evans2 (155)
- 12) **Q: What is the main disadvantage of stalls constructed of wood?**  
A: Horses can chew the wood  
S: Evans2 (775)
- 13) **Q: What is the reason for a teaser stallion?**  
A: To determine the success of detecting the mare in estrus or heat  
S: Evans2 (392)
- 14) **Q: What is the term used to describe the reproductive habits of a mare indicating that she undergoes multiple estrous cycles but has a period of time during the year when she fails to cycle?**  
A: Seasonally polyestrous  
S: HIH (910-5)
- 15) **Q: How much will the horse's stomach hold, in gallons?**  
A: 2-4 gallons  
S: EqSci (110)
- 16) **Q: What school is famous for using the Lippizaner?**  
A: Vienna Spanish Riding School  
S: Evans2 (390)
- 17) **Q: Dull, sunken eyes and loss of moisture on the mucus membranes are signs of what?**  
A: Dehydration  
S: Evans2 (260)

#### **TOSS-UP WITH BONUS ATTACHED**

- 18) **Q: What is the single most important criteria used in equine selection?**  
A: Balance  
S: HIH (220-5)

#### **BONUS**

- 19) **Q: What are two (2) ways a horse should be tied in a trailer when traveling?**  
A: Tied with a quick release knot or fastened with an easy release panic snap  
S: AYHCLM (int 201-2)
- 20) **Q: What piece of equipment may be used to keep the horse from carrying its head too high?**  
A: Martingale  
S: Evans2 (401)



- 21) **Q: What term describes a female horse that has had her ovaries surgically removed?**  
A: Spayed mare  
S: EqSci (23)

**TOSS-UP WITH BONUS ATTACHED**

- 22) **Q: The lungs are supplied with blood by which artery?**  
A: Pulmonary artery  
S: EqSci (208)

**BONUS**

- 23) **Q: How many breeds of draft horses originated in the United States? Name them.**  
A: One- American Cream Horse  
S: HIH (115B-1)
- 24) **Q: The earliest members of the horse family had how many toes on each foot?**  
A: 4 toes  
S: EqSci (6)
- 25) **Q: Approximately how long is the cecum, in feet?**  
A: 4 feet  
S: EqSci (112)
- 26) **Q: Bourbon King, Wing Commander and Denmark were all famous horses of what breed?**  
A: American Saddlebred  
S: HIH (162-2)

**TOSS-UP WITH BONUS ATTACHED**

- 27) **Q: What is the name for a small organism that is dependant on a host organism for its life functions?**  
A: Parasite  
S: Evans2 (346)

**BONUS**

- 28) **Q: Name three (3) variations of the overo color pattern.**  
A: Frame, splashed white and sabiano  
S: EqSci (48)
- 29) **Q: How do endocrine glands transport and deliver the hormones they produce to their target tissues?**  
A: Via the circulatory system (blood)  
S: Evans2 (126)

- 30) **Q: What is the most important factor affecting the quality of hay?**  
A: Stage of maturity at time of harvest  
S: HIH (760-4)
- 31) **Q: What color is a horse that has a golden coat, a black mane and tail, and a dorsal stripe?**  
A: Dun  
S: EqSci (42)
- 32) **Q: Where is insulin produced in the horse's body?**  
A: Pancreas  
S: Evans2 (127)

**END OF ROUND SEVEN**

**2012 District Horse Bowl  
Mixed Division  
Round Eight**

- 1) **Q: How many beats in a running walk?**  
A: Four  
S: EqSci (81)
- 2) **Q: Wolf teeth are small teeth typically found in the interdental space. They are rarely present in which jaw of the horse?**  
A: Lower jaw or mandible  
S: HIH (405-1)
- 3) **Q: What does “DNA” stand for?**  
A: deoxyribonucleic acid  
S: EqSci (87)
- 4) **Q: What is the term used to describe when a mare has problems with the foaling process?**  
A: Dystocia  
S: Evans2 (423)
- 5) **Q: What disease is linked to the Asian Tiger mosquito?**  
A: West Nile Fever  
S: HIH (415-2)
- 6) **Q: Lethal White Foal Syndrome is most common in which breed or breeds?**  
A: Paint/pinto-colored horses  
S: EqSci (98)
- 7) **Q: Gooseneck and bumper pull are two (2) types of what?**  
A: Trailer hitches  
S: HIH (1155-1)
- 8) **Q: What part of the horse is at a particular risk for a puncture wound?**  
A: Hoof  
S: HIH (440-1)
- 9) **Q: Quarter Horses genetically related to what sire are at risk of what genetic disorder?**  
A: Impressive & Hyperkalemic Periodic Paralysis (HYPP)  
S: EqSci (98)

- 10) **Q: What genetic term is used to describe what a horse looks like?**  
A: Phenotype  
S: Evans2 (458)
- 11) **Q: When introducing new horses into your barn or a closed group of horses, what is the amount of time in which you should isolate the new horse to observe it for any signs of infection?**  
A: 21- 30 days  
S: HIH (445-1)
- 12) **Q: What is meant when a genetic disorder is said to be "sex-linked?"**  
A: The genetic disorder is carried on a sex chromosome  
S: EqSci (99)
- 13) **Q: About how many miles per hour does a horse canter at?**  
A: about 12 mph  
S: EqSci (74)
- 14) **Q: There are three (3) types of encephalomyelitis that affect horses. Nearly all horses with which strain do not survive?**  
A: Eastern  
S: HIH (445-5)
- 15) **Q: What is the generally accepted rule of thumb used to determine a ration?**  
A: A horse should be fed approximately 2.0 pounds of the total food per day for every 100 pounds of body weight.  
S: EqSci (106)
- 16) **Q: Describe the color "ruano."**  
A: Red colored with lighter colored points or flaxen mane and tail  
S: EqSci (41)
- 17) **Q: Approximately 65 to 75% of the horse's body is made up of what?**  
A: Water  
S: EqSci (115)

**TOSS-UP WITH BONUS ATTACHED**

- 18) **Q: In what breed of horse is Equine Viral Arteritis considered to be endemic because 85% of the breed is all seropositive for the virus?**  
A: Standardbred  
S: HIH (445-10)

**BONUS**

- 19) **Q: If a horse has zebra marks, on what area of the horse's body would they be found?**  
A: Knees, hocks or lower legs  
S: EqSci (41)
- 20) **Q: How many lumbar vertebrae does the horse have?**  
A: Six (6)  
S: EqSci (203)
- 21) **Q: Vitamins A, D, E and K are what?**  
A: Fat soluble vitamins  
S: EqSci (122)

**TOSS-UP WITH BONUS ATTACHED**

- 22) **Q: What nutrient deficiency will cause hemorrhaging?**  
A: Vitamin K  
S: Lewis2 (439)

**BONUS**

- 23) **Q: What is another term for a sand crack and where would you find one located?**  
A: toe or quarter crack - vertical crack in the hoof wall  
S: HIH (540-2)
- 24) **Q: What is the term used to describe a mare that is producing milk?**  
A: Lactating  
S: IDET (163)
- 25) **Q: Starch, sugar and fiber make up what essential nutrient?**  
A: carbohydrates  
S: EqSci (150)
- 26) **Q: Fino, Corto, Largo are words that refer to the gaits of what breed?**  
A: Paso Fino  
S: Evans2 (178)

**TOSS-UP WITH BONUS ATTACHED**

- 27) **Q: Equus was the first "true horse." Approximately how many years ago did Equus appear on earth?**  
A: One million (1,000,000) years ago  
S: EqSci (6)

**BONUS**

- 28) **Q: Give two (2) signs of a zinc deficiency in the horse.**  
A: poor growth, skin lesions (parakeratosis)  
S: Evans2 (234)
- 29) **Q: Delivering oxygen to individual body tissues from the lungs is the primary function of what body system?**  
A: Cardiovascular  
S: AYHCLM (119-2)
- 30) **Q: What is the buccal cavity?**  
A: The mouth  
S: Evans2(92)
- 31) **Q: What part of the brain functions as the thermoregulator in the horse?**  
A: The hypothalamus  
S: Evans2 (126)
- 32) **Q: What is the fibro-elastic structure that acts as a shock absorber for the foot?**  
A: Digital cushion  
S: Evans2 (696)

**END OF ROUND EIGHT**

**2012 District Horse Bowl  
Mixed Division  
Round Nine**

- 1) **Q: Vitamin A is necessary for the growth and development of what part of the horse?**  
A: The hoof  
S: HIH (2)
- 2) **Q: What is the pulse of an average adult horse at rest?**  
A: 40 to 45 beats per minute  
S: EqSci (155)
- 3) **Q: What is the proper term for a foal born prior to three-hundred and nineteen (319) days of gestation called?**  
A: underdeveloped (premature ok)  
S: Evans2 (343)
- 4) **Q: In feet, what is the average length of stride in a trot or jog?**  
A: 8 or 9 feet  
S: EqSci (72)
- 5) **Q: What is another name for Vitamin B1?**  
A: Thiamin  
S: Lewis2 (52)
- 6) **Q: What type of fencing is not recommended for horses?**  
A: Barbed wire  
S: HIH 350-4
- 7) **Q: How many vertebrae are in the caudal region of the spine?**  
A: 15-21  
S: CAHA (plate 7)
- 8) **Q: In a pinto or paint horse, what is another name for "bear paw" markings?**  
A: Paw prints, ink spots  
S: EqSci (39)
- 9) **Q: More than half of the hay harvested in the United States is of what type?**  
A: Alfalfa  
S: Lewis2 (63)

- 10) **Q: What is the formula for cardiac output to total amount of blood pumped by the heart at a given time?**  
A: Heart rate x stroke volume  
S: HIH (830-1)
- 11) **Q: On what continent is it thought that the early ancestors of the horse originated on?**  
A: North America  
S: EqSci (14)
- 12) **Q: Horses that do not want to leave the barn are called what?**  
A: Barn Sour  
S: AYHCLM (111-2)
- 13) **Q: What is the best method of controlling flies?**  
A: Removal of waste and decaying vegetable material.  
S: EqSci (52)
- 14) **Q: What term describes the position or location of a gene on a chromosome?**  
A: locus or loci (plural)  
S: EqSci (90)
- 15) **Q: With what type of wound should one always administer a tetanus vaccination?**  
A: Puncture wound  
S: AYHCLM (109-1)
- 16) **Q: A hoof proportionate to the horse's body size allows for what?**  
A: Ideal distribution of the body weight.  
S: HIH (1)
- 17) **Q: What is the function of iron in the blood stream?**  
A: Iron is needed for oxygen storage and transportation in the cells of the body.  
S: EqSci (139)

**TOSS-UP WITH BONUS ATTACHED**

- 18) **Q: Which carpal bone is embedded in the medial collateral ligament and may be absent?**  
A: 1st carpal bone  
S: CAHA2 (11)

**BONUS**

- 19) **Q: Name the five (5) bones of the horse's leg below the cannon bone.**  
A: Sesamoid, Long Pastern Bone, Short Pastern Bone, Coffin Bone, Navicular Bone  
S: HIH (505-5)



20) **Q: What problem would a vitamin A deficiency cause in a horse's hooves?**  
A: Poor hoof quality. The tubules of the hoof will not hold together well.  
S: HIH (505-2)

21) **Q: Which of the three (3) toes of the merychippus touched the ground?**  
A: The middle toe  
S: EqSci(9-10)

**TOSS-UP WITH BONUS ATTACHED**

22) **Q: Pushing a spur into a horse's ribs to make him move is what type of negative reinforcement?**  
A: escape  
S: Evans2 (665)

**BONUS**

23) **Q: What two (2) things affect the size of the hoof?**  
A: Heredity and nutrition  
S: HIH (505-1)

24) **Q: What two (2) forms does melanin come in?**  
A: Eumelanin & pheomelanin  
S: EqSci (93)

25) **Q: What is the stage of the parasite's life that is adapted to gaining access and taking up residence in the host called?**  
A: Infective stage  
S: Evans2 (617)

26) **Q: What is the primary cause of death in most horses with equine influenza?**  
A: Pneumonia  
S: HIH (605-1)

**TOSS-UP WITH BONUS ATTACHED**

27) **Q: This type of horse shoe is used to transfer weight from the wall to the frog while the wall area is healing?**  
A: heart bar shoe  
S: AYHCLM (231-3)

**BONUS**

28) **Q: Name three (3) breeds affected by Neonatal Isoerythrolysis.**  
A: Arabian, Thoroughbred, Quarter Horse, Morgan, Warmblood, pony breeds, and Miniatures Horses  
S: EqSci (102)

- 29) **Q: How many vertebrae are located in the thoracic region?**  
A: Eighteen (18)  
S: CAHA (plate 7)
- 30) **Q: What is another name for the Peruvian Paso?**  
A: Peruvian Stepping Horse  
S: IDET (210)
- 31) **Q: What part of the hoof is higher in zinc than the other parts?**  
A: The hoof wall  
S: HIH 505-2
- 32) **Q: Which draft breed is found in Europe and Japan, has good endurance, and is used for heavy farm work?**  
A: Breton  
S: IDET (39)

**END OF ROUND NINE**