

NAME: _____

PARTICIPANT NUMBER: _____

2010 Senior Hippology Exam KEY

Carefully read each of the following questions and enter the correct answer on your scantron sheet. **Please completely fill in the space of your preferred answer on your scantron and circle your answer on this exam using a No. 2 pencil.** Please make sure YOUR NAME and PARTICIPANT NUMBER are bubbled in correctly on your scantron and written on this exam. Good luck!

EXAM I

51. What is the first step in treating an abscess?
- a. soak the area in epsom salt
 - b. give bute
 - c. **open the affected area and allow it to drain**
 - d. antibiotics
52. The horse's field of binocular vision is:
- a. approximately 95 degrees.
 - b. approximately 20 degrees.
 - c. approximately 80 degrees.
 - d. **approximately 65 degrees.**
53. Grulla horses are a sub-group of:
- a. palominos
 - b. **dun-colored horses**
 - c. buckskins
 - d. black horses
54. What glands lubricate the eye?
- a. superior and posterior lacrimal glands
 - b. anterior and posterior lacrimal glands
 - c. **superior and inferior lacrimal glands**
 - d. inferior and anterior lacrimal glands
55. The scientific classification of the domestic ass is _____.
- a. *Equus domesticus*
 - b. *Equus callabus*
 - c. *Equus donkeas*
 - d. ***Equus asinus***

56. Which one of these gaits is not a "single-foot" gait?
- rack
 - slow gait
 - walk
 - fox trot
57. Regarding coat color, black pigmented colors include all of these, EXCEPT:
- red dun
 - black
 - brown
 - grulla
58. Two bits are used in a full or Weymouth bridle. What is the small snaffle bit in this bridle called?
- bridoon
 - snaffle
 - gag
 - skinny
59. Which of the following equid had high crowned teeth?
- Meshippus
 - Prehorse
 - Eohippus
 - Pliohippus
60. Pigment cells are also called:
- eumelanin
 - melanocytes
 - melanin
 - pheomelanin
61. What bit material increases salivation to make the mouth more responsive when used on a mouthpiece?
- german silver
 - steel
 - copper
 - iron
62. This is the faster gait of harness horses:
- rack
 - trot
 - gallop
 - pace

63. The process of passing genetic material to the next generation is called:
- reproducing
 - heritage
 - mating
 - inheritance**
64. This group has been a leader in equine genome research:
- The National Society of Animal Genetics
 - The International Society of Animal Genetics**
 - The National Society of Equine Genetics
 - The International Society of Equine Genetics
65. Total range of vision for the horse is:
- 270 degrees
 - 300 degrees
 - 325 degrees
 - 350 degrees**
66. In the horse's small intestine, soluble carbohydrates are digested into what simple structure to be absorbed and used as energy?
- glucose**
 - volatile fatty acids
 - amino acids
 - ketones
67. What bit is being described? This bit uses four reins. It is a one piece bit that functions like both a snaffle and a curb combined into one mouthpiece. One set of reins is attached to the rings and work like a snaffle and one set attaches to the shanks and adds leverage.
- pelham**
 - weymouth
 - gag
 - liverpool
68. A mule is defined as:
- a miniature burro.
 - a male burro.
 - the offspring of a jack and a mare.**
 - the offspring of a stallion and a jenny.
69. The first equid to walk permanently on one toe was the _____.
- Pliohippus
 - Eohippus
 - Mesohippus
 - Merychippus**

70. At this gait, there are generally 3 feet on the ground at a time:
- walk
 - trot
 - canter
 - gallop
71. Tostado' is the term used in South America to describe a horse that is:
- red-colored with red points.
 - red-colored with darker colored points.
 - red-colored with lighter-colored points.
 - a grulla.
72. This disease is characterized by episodes of muscle tremors and weakness. Affected horses are hindered by high levels of potassium in the diet:
- Lethal White Foal Syndrome
 - Hemophilia
 - Severe Combined Immunodeficiency
 - Hyperkalemic Periodic Paralysis
73. Appaloosas are commonly referred to as what type of breed?
- stock horse
 - performance horse
 - sporthorse
 - halter horse
74. A horse that is predisposed to landing on the outside of its hoof walls stands on what type of base?
- bow legged
 - base wide
 - base narrow
 - cow hocked
75. What is not a type of buckskin or dun colored horse?
- brindle dun
 - grulla
 - red dun
 - gold dun
76. What is the maximum height allowed for horses to be registered at the American Miniature Horse Association?
- 32 inches
 - 36 inches
 - 40 inches
 - 34 inches

77. American Paint Horses cannot be registered if they have lineage from what registry?
- a. **AMHA**
 - b. APHA
 - c. Jockey Club
 - d. AQHA
78. What is not a type of Breeding Contract?
- a. Stallion Service Contract
 - b. **Mare Sharing**
 - c. Foal Sharing Agreement
 - d. Mare Lease
79. Composting manure does not:
- a. **kill nutrients**
 - b. kill fly eggs
 - c. kill weed seeds
 - d. kill larvae
80. What is the term for the accumulation of excessive synovial fluid in the joint capsule of the fetlock?
- a. fetlockitis
 - b. bog spavin
 - c. **wind-puffs**
 - d. sesamoiditis
81. Night eyes are a common name for what structure on the horse?
- a. ergots
 - b. **chestnuts**
 - c. splints
 - d. corns
82. Epiphora is the result of a blocked nasolacrimal duct and results in the overflow of what fluid?
- a. blood
 - b. saliva
 - c. sweat
 - d. **tears**
83. What hoof disease is caused by hoof digesting fungi?
- a. sole disease
 - b. thrush
 - c. **white line disease**
 - d. laminitis

84. As a horse ages the shape of the incisors changes from oval to what shape?
- triangular
 - round
 - square
 - rectangular
85. What two organs deliver enzymes and products into the duodenum to assist in the digestive process?
- gall bladder and bile duct
 - pancreas and liver
 - pancreas and gall bladder
 - liver and bile duct
86. In what two breeds is Wobbler Syndrome most prevalent?
- Thoroughbred and Standardbred
 - Quarter Horse and Arabian
 - Quarter Horse and Thoroughbred
 - Standardbred and Saddlebred
87. The endometrium is the mucosal lining of what organ?
- epididymis
 - vagina
 - testicle
 - uterus
88. An inflammation of the tarsal synovial membrane on the inside front portion of the joint causing a noticeable swelling is referred to as what?
- bog spavin
 - bone spavin
 - thoroughpin
 - road gall
89. Name the movement of the horse where the horse trots in a very cadenced, floating manner, while moving forward with a marked period of suspension?
- Extended trot
 - Piaffe
 - Passage
 - Park trot
90. In training, giving a reward when the horse performs the desired act or behavior is termed what?
- treating
 - negative reinforcement
 - bribery
 - positive reinforcement

91. In general terms, what does the horse's adrenal gland produce?
- white blood cells
 - saliva
 - blood
 - hormones**
92. Endocarditis is an inflammation or infection of the lining of what organ?
- liver
 - kidneys
 - lung
 - heart**
93. Epinephrine is a very important hormone for the horse in stress situations and is produced by which organ?
- pineal gland
 - kidneys
 - pituitary gland
 - adrenal gland**
94. A blood mark on a horse is:
- small dark colored spots on the white areas of paint horses.
 - a ring shaped pattern in the horse's coat.
 - a dark colored 'splotch' on the basic coat color.**
 - a dark base coat with lighter colored hair on the flanks, girth, and muzzle.
95. In horse racing, what distance, in miles, is 6 furlongs?
- 3/4 mile**
 - 1/2 mile
 - 1 mile
 - 1 1/4 miles
96. An accumulation of fluid in the alveoli from an infectious pulmonary problem would be termed what?
- pleurisy
 - pulmonary edema
 - bronchitis
 - pneumonia**
97. Protein metabolism results in nitrogenous waste products that are cleared from the body by what organ?
- large colon
 - liver
 - kidneys**
 - rectum

98. Name the hard enlargement on the plantar ligament that develops in response to stress.
- bursitis
 - capped hock
 - curb**
 - plantar fasciitis
99. In the racing industry, what is the term for a race horse's best time?
- black type
 - personal best
 - record
 - mark**
100. This disease is also called Megacolon:
- Hemophilia
 - Lethal White Foal Syndrome**
 - Severe Combined Immunodeficiency
 - Hyperkalemic Periodic Paralysis

EXAM II

101. The position of a gene on a chromosome:
- polygenic
 - allele
 - genotype
 - locus**
102. A supple horse uses what part of its body to aid in balance and stability?
- barrel
 - tail
 - head and neck**
 - legs
103. If a pair of alleles are not identical, what should that individual be considered with respect to those genes?
- polyzygous
 - homozygous
 - monozygous
 - heterozygous**
104. In what age group of horses is epiphysitis associated?
- hard working horses
 - pregnant mares
 - growing horses**
 - geriatric horses

105. What is the most common blemish of the hind limbs?
- Capped hock
 - Splint
 - Bowed tendon
 - Curb
106. In what area of the world did the Barb originate?
- Italy
 - Arabian peninsula
 - Spain
 - Northern Africa
107. Osselets is the term for an inflammation of the periosteum on the anterior surface of what joint?
- stifle
 - knee
 - fetlock
 - hock
108. Prior to 1908, the American Jockey Club registered two other breeds of horse besides the Thoroughbred. What two breeds were they?
- Arabian and Anglo-Arab
 - Standardbred and Saddlebred
 - Quarter Horse and Arabian
 - Arabian and Standardbred
109. Protein is composed of a chain of small units called what?
- amino acids
 - nitrogen
 - vitamins
 - minerals
110. Osteoblasts form a protein matrix that ultimately forms what tissue?
- cartilage
 - bone
 - smooth muscle
 - striated muscle
111. Which grain is the highest source of energy?
- Wheat
 - Oats
 - Barley
 - Corn

112. Corn infected with aflatoxins can cause damage to what organ of the horse's body?
- a. stomach
 - b. kidneys
 - c. liver
 - d. intestines
113. Name the hardest-working joint in the horse's body.
- a. stifle joint
 - b. hock joint
 - c. shoulder joint
 - d. sacro-iliac joint
114. The King Ranch of Texas developed a linebreeding program around one Quarter Horse stallion that they felt fit their ideal of the working cow horse. Who was this horse?
- a. Black Hand
 - b. Wimpy P-1
 - c. Old Sorrel
 - d. Allen F-1
115. At what time of the year is Yellow Star Thistle a problem for horses?
- a. late summer and into the fall
 - b. early spring
 - c. mid summer
 - d. late fall
116. In what country were horse with the colorful characteristics of the Appaloosa first seen?
- a. China
 - b. Japan
 - c. India
 - d. Turkestan
117. In reference to color inheritance, there are six modifications of the black coat color, all of which have black points except one, which is:
- a. perlino
 - b. cremello
 - c. chestnut
 - d. brown
118. What is the average heart-weight to body-weight ratio of the horse?
- a. 0.005
 - b. 0.0094
 - c. 0.015
 - d. 0.02

119. The amount of water in a horse's body accounts for approximately what percent of total body weight?
- a. 0.87
 - b. 0.5
 - c. 0.75
 - d. 0.66
120. What is the correct formula to convert Fahrenheit to Celsius?
- a. $(F+32) \times 5/9 = C$
 - b. $(C+32) \times 5/9 = C$
 - c. $(F+ 52) \times 5/9 = C$
 - d. $(C+52) \times 5/9 = C$
121. A horse that is extremely sickle hocked is prone to what unsoundness of the hock?
- a. capped hock
 - b. curb
 - c. bone spavin
 - d. stifle lock
122. Animals that go into shock will present with:
- a. Slower capillary refill time
 - b. Faster capillary refill time
 - c. Increased salivation
 - d. Very moist mucosa
123. What type of organs are the eyes, ears, and nose?
- a. alimentary
 - b. sensory
 - c. digestive
 - d. excretory
124. What is the name of the muscle that underlies the horse's skin and enables it to twitch and shake flies off its body?
- a. mandible
 - b. flank
 - c. gaskin
 - d. panniculus
125. These are examples of equine bacterial diseases, EXCEPT:
- a. Salmonellosis
 - b. Strangles
 - c. Histoplasmosis
 - d. Tetanus

126. In horses, as well as other mammals, light rays enter the lens of the eye and are focused on what?
- the iris
 - the retina**
 - the cornea
 - the pupil
127. What hormone is responsible for the formation of the corpus luteum?
- estrogen
 - oxytocin
 - progesterone
 - luteinizing hormone**
128. These are examples of equine protozoal diseases, EXCEPT:
- Leptospirosis**
 - Potomac Horse Fever
 - Piroplasmosis
 - EPM
129. What is another term for the skin that covers the horse's body?
- integument**
 - ligament
 - denteyne
 - dermatitis
130. The base coat color of a red roan is:
- chestnut
 - bay**
 - palomino
 - brown
131. Give the name for the horny growth behind the fetlock joint.
- ergot**
 - chestnut
 - frog
 - coffin bone
132. What is the name for the long, individual hairs that often mix with the dense undercoat of the horse, especially under the belly?
- insulating hairs
 - surface hairs
 - wild hairs
 - guard hairs or cat hairs**

133. Parrot mouth or overshot jaw is a conformation defect involving what bone?
- a. maxilla
 - b. mandible
 - c. temporal bone
 - d. scapula
134. How much of the horse's body weight is maintained by the front legs?
- a. 60-65%
 - b. 45-50%
 - c. 70-75%
 - d. 20-25%
135. Ringbone can be classified as high or low. If it involves the pastern joint how is it classified?
- a. high ringbone
 - b. low ringbone
 - c. sidebone
 - d. osselots
136. Name the condition in which the frog is narrow and shrunken and the heels of the foot are pulled together.
- a. seedy toe
 - b. thrush
 - c. sheared hoof
 - d. contracted heels
137. Name the general term given to mares that possess the breeding unsoundness of a tipped vulva that causes aspiration of air into the vagina, leading to chronic infection.
- a. windsuckers
 - b. windjammers
 - c. aeromares
 - d. aerophagia
138. What are bony lumps that develop on various bones throughout the body?
- a. panniculitis
 - b. sarcoids
 - c. sebaceous cysts
 - d. hereditary multiple exostosis
139. What type of hay is higher in calcium and protein?
- a. mixed hay
 - b. grass hay
 - c. legume hay
 - d. timothy hay

140. A proper fitting stirrup iron should allow how much room on each side of the ball of the foot when placed in the stirrup?
- 1/2 inch
 - none
 - 1/4 inch
 - 1 inch
141. What are closed reins with flexible romel on end to be held in both hands?
- Canadian reins
 - Texas reins
 - Colorado reins
 - California reins
142. 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?
- oats
 - wheat
 - corn
 - barley
143. These endoparasites affect generally horses that are less than 1 year of age, as adult horses seem to develop immunity to these parasites as they get older:
- Small strongyles
 - Ascarids
 - Oxyuris
 - Habronema
144. Horses begin to grow their winter coat in response to what stimulus?
- increase in daylight
 - decrease in temperature
 - decrease in daylight hours
 - increase in temperature
145. According to the Horse Industry Handbook, a hay ration for mature horses should contain what percentage crude protein?
- 16-20%
 - 4-6%
 - 8-12%
 - 12-16%
146. 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?
- conformation
 - confirmation
 - structure
 - type

147. This disease is transmitted by the bite of an infected animal, as the virus is present in the saliva:
- a. EPM
 - b. EEE
 - c. Potomac Horse Fever
 - d. Rabies
148. What is the name for the exterior opening to the reproductive canal?
- a. vagina
 - b. vulva
 - c. rectum
 - d. cervix
149. What is the primary function of FSH in the stallion?
- a. stimulates spermatogenesis
 - b. stimulate sexual behavior
 - c. stallions don't have FSH
 - d. increase libido
150. In reference to a horse's foot, where would you find a corn?
- a. in the heel area of the sole
 - b. bulbs of the heels
 - c. on the toe, under the shoe
 - d. in the frog

Please **double check all your answers** and **MAKE SURE YOUR NAME** and **PARTICIPANT NUMBER ARE BUBBLED IN CORRECTLY.**