Coat Colors - Write the correct letter in the blank (HIH 140-1 & 140-2)

1. ___D___ Black mane and tail                           A. Dun
2. ___C___ Flaxen mane and tail                           B. Red Roan
3. ___A___ Dorsal and zebra stripes                       C. Sorrel
4. ___B___ Body is a mixture of white and red hairs       D. Buckskin

What Breed is That? - Circle the correct answer (HIH 150-1 through 161-2, Horse 28-74)

5. What breed could be characterized by the terms tobiano, overo, or tovero? (HIH159-3)
   Answer: d. Paint

6. What breed originated in the Shetland Isles of Scotland? (Horse 58)
   a. Welsh        b. Shetland pony  c. Icelandic ponies  d. POA’s
   Answer: b. Shetland pony

7. What breed is represented by the Jockey Club? (HIH157-1)
   a. Thoroughbred b. Clydesdale     c. Trotting Horse    d. Welsh
   Answer: a. Thoroughbred

8. What breed originated in Ireland and is known for its jumping ability? (Horse 65)
   Answer: a. Connemera

9. What breed was once called the American Trotting Horse? (Horse 28)
   Answer: c. Standardbred

10. What breed of horse did not originate in Germany? (Horse 74)
    Answer: b. Trakehner

The Nervous System - Match the nerve to the function that it serves. Write the correct letter in the blank. (HA Plate 78)

11. ___C___ Optic Nerve                                      A. Moves Muscles of the Tongue
12. ___B___ Olfactory Nerve                                  B. Sense of Smell
13. ___D___ Vestibulocochlear Nerve                          C. Vision
14. ___A___ Hypoglossal Nerve                                D. Hearing and Balance
15. ___E___ Oculomotor Nerve                                 E. Moves Eye Muscles

ABC’s - Fill in the correct word that begins with the underlined letter (Glossary of Equus)
16. The wasting away of a body part or tissue is called **atrophy**. (Equus 8/02)
17. Able to survive or function where there is no oxygen **anaerobic**. (Equus 12/02)
18. Fluid secreted by the liver that goes into the small intestine and aids in digestion **bile**. (Equus 4/02)
19. The large pouch between the small and large intestines **Cecum**. (Equus 2/03)
20. Abdominal pain **colic**. (Equus 4/02)
21. To cut away dead or damaged tissue **debride**. (Equus 8/02)
22. The abnormal collection of fluid in body tissues that causes soft swelling **edema**. (Equus 12/02)
23. The lower jawbone **mandible**. (Equus 8/02)
24. Also known as the windpipe **trachea**. (Equus 2/03)

**Know Your Horses** - Circle the correct answer (Horse Industry Handbook)

25. Which is not a type of equine encephalitis? (HIH625-1)
   - a. northern  
   - b. eastern  
   - c. western  
   - d. venezuelan

26. How many pairs of chromosomes does the horse have? (HIH 1020-1)
   - a. 16  
   - b. 32  
   - c. 48  
   - d. 64

27. What term refers to paired genes that are identical? (HIH 1020-2)
   - a. mitosis  
   - b. meiosis  
   - c. heterozygous  
   - d. homozygous

28. Which is NOT a type of negative reinforcement? (HIH1240-3)
   - a. punishment  
   - b. escape  
   - c. feed  
   - d. avoidance

29. What is the normal pulse rate for a mature horse at rest in beats per minute? (HIH425-1)
   - a. 30  
   - b. 45  
   - c. 70  
   - d. 100

30. How many pounds of manure will a healthy horse produce in 24 hours? (HIH425-2)
   - a. 45 pounds  
   - b. 65 pounds  
   - c. 20 pounds  
   - d. 5 pounds

31. Which of the following is not a type of colic? (HIH435-1)
   - a. spasmodic colic  
   - b. impaction colic  
   - c. black walnut colic  
   - d. displacement colic

32. Modified viruses injected into the horse to provide an immune response are what? (HIH445-1)
   - a. infection  
   - b. immunization  
   - c. lacerations  
   - d. vaccinations

33. Rabies vaccinations should be given to horses: (HIH445-3)
34. Cushing’s Syndrome is caused by a tumor on which gland? (HIH450-5)
   a. kidney  b. thyroid  c. liver  d. pituitary
   - pituitary

The Knee Bone is Connected to the Leg Bone - From the ground up, label the bones in the front leg in order with 1 being closest to the ground and 5 being closest to the withers. (HA Plate 6, Horse 91)
   35. 3 Carpal Bones
   36. 1 Distal Phalanx
   37. 5 Humerus
   38. 2 Metacarpal Bone
   39. 4 Radius

True or False - Write True if the statement is true and False if the statement is false (Horse)
40. T The muscles surrounding the left ventricle are much stronger than those surrounding the right ventricle. (Horse 111)
41. F The horse belongs to the class Animalia (Horse 13)
42. T Bones of the horse are classified as long, short, flat, and irregular (Horse 90)
43. F The skeleton of the horse is made up of 213 bones (Horse 90)
44. T The tidal volume is the volume of air inspired or expired during each breathing cycle (Horse 109)
45. F The epidermal layer of skin contains arteries, veins, and hair follicles (Horse 128)
46. T Most food will pass through the digestive system within 65 to 75 hours after ingestion (Horse 194)
47. T Iodine is a trace nutrient (Horse 231)
48. T The color palomino results from a dilution of the chestnut gene (Horse 459)
49. F The hoof knife is used to clean rocks and dirt from the hoof (Horse 728)

Foot Care - Circle the correct answer (HIH 505-1 through 555-2)
50. What part of the shoe takes the stress off the nails and stabilizes the shoe on the hoof? (HIH515-2)
   a. clips   b. webs   c. fullerings   d. pitch

51. What type of shoe enhances leg action and motion of the horse? (HIH515-3)
   a. glue on shoes   b. heart bar shoes   c. weighted shoes   d. aluminum shoes

52. What tool is used to open the nail holes on the shoe? (HIH530-4)
   a. nippers   b. rasp   c. clinchers   d. pritchel

53. What vitamin is necessary for the growth and development of normal hoofs? (HIH505-2)

54. What material is preferred for jumping and reining shoes to decrease fatigue? (HIH515-4)
   a. iron   b. steel   c. aluminum   d. copper

55. Thrush is usually found where on the hoof? (HIH540-1)
   a. toe   b. around the frog   c. outer wall   d. coronary band

56. What part of the hoof should be used as a guide when shaping hooves? (HIH525-1)
   a. sole   b. hoof wall   c. frog   d. white line

**Trace Nutrients** - Write the correct letter in the blank (Horse 231-237)

57. ___D___ a lack of this results in muscular dystrophy in young horses   A. Iron
58. ___E___ helps build cartilage   B. Manganese
59. ___B___ lost when horses sweat   C. Iodine
60. ___A___ required for hemoglobin to transport oxygen in blood   D. Selenium
61. ___C___ needed for production of hormones in thyroid gland   E. Sodium Chloride

**Inches to Hands, Hands to Inches** - Write the correct number in the blank (Horse 139)

62. How many inches tall is a horse that is 10 hands? ________ 40 ________
63. How many inches tall is a horse that is 13.2 hands? ________ 54 ________
64. How many hands is a horse that is 48 inches tall? ________ 12 ________
65. How many hands is a horse that is 71 inches tall? ________ 17.3 ________

**Healthy Horses** - Circle the correct answer (Glossary Equus Magazine)

66. Which term refers to the therapeutic rinsing with large volumes of fluid? (Equus 2/03)
67. What is the forced expiratory effort in horses due to the narrowing of the airways in the lungs called? (Equus 2/03)
   A. Coughing  B. Heaves  C. Sneezing  D. Asthma

68. What is an anti-inflammatory medication used in the management of joint, bone and muscle injuries? (Equus 2/03)
   A. Bort  B. Bite  C. Bute  D. Bait

69. Which term is NOT associated with swelling or inflammation? (Equus 12/02)
   A. Encephalitis  B. Enterolith  C. Edema  D. Scratches

70. Which is NOT a type of white blood cell? (Equus 12/02)
   A. Neutrophil  B. Basophil  C. Monocyte  D. Leukophil

71. Where on the horse are the guttural pouches located? (Equus 12/02)
   A. Head  B. Legs  C. Back  D. Hooves

**Male or Female** – For the following reproductive parts, write (M) if the part is male or (F) if the part is female (Horse)

72. **F** Clitoris (Horse 316)  75. **M** Prepuce (Horse 355)
73. **M** Seminal Vesicle (Horse 355)  76. **F** Fallopian Tube (Horse 316)
74. **F** Cervix (Horse 321)  77. **M** Scrotum (Horse 355)

**Let’s See Those Muscles** - Match the type of muscle to the body part where it is located. Write the correct letter in the blank. (HA Plate 16, Horse 100)

78. **E** Shoulder  A. Digital Extensor
79. **A** Gaskin  B. Masseter
80. **B** Cheek  C. Cervical Ventral Serrated
81. **D** Barrel  D. External Abdominal Oblique
82. **C** Neck  E. Deltoid

**Nutrition** - Circle the correct answer (HIH 420-1, 2 and HIH 710-5 to 760-1)

83. What is the most important winter feed for horses? (HIH420-1)
   a. oats  b. beet pulp  c. corn  d. hay
84. A mature, idle, average condition 1000 pound horse will eat how much hay per day? (HIH420-2)
   - a. 15 pounds  b. 30 pounds  c. 40 pounds  d. 50 pounds

85. Feed given to horses should be measured by what? (HIH710-5)
   - a. volume  b. weight  c. brand  d. size

86. How much water will a 1000 pound horse drink per day? (HIH710-7)
   - a. 2 gallons  b. 6 gallons  c. 10 gallons  d. 16 gallons

87. Hay that is stored over a long period of time will lose what essential vitamin? (HIH750-9)

88. Which is not considered one of the five main nutrients for horses? (HIH760-1)
   - a. protein  b. oxygen  c. vitamins  d. minerals

Gaits - Fill in the number of beats in each of the following gaits (H173-178)

89. ___2____ Extended Trot (Horse 173)
90. ___4____ Amble (Horse 178)
91. ___2____ Pace (Horse 175)
92. ___4____ Paso Largo (Horse 178)
93. ___2____ Jog (Horse 175)
94. ___4____ Slow Gait (Horse 178)

Internal and External Parasites - tell whether the following are internal (I) or external (E) parasites (HIH 415-1 through 430-2)

95. ___E____ Lice (HIH415-6)
96. ___E____ Mites (HIH415-8)
97. ___I____ Stomach Bots (HIH430-3)
98. ___E____ Ticks (HIH415-7)
99. ___I____ Pinworms (HIH430-2)
100. ___E____ Bot Flies (HIH415-5)

Sources:
HIH - Horse Industry Handbook by American Youth Horse Council
Horse - The Horse, 2nd edition by Evans, Borton, Hintz, and Van Vleck
HA - Horse Anatomy, A Coloring Atlas by Kainer and McCracken
Equus - Equus Magazine Glossary