

**Equine Science Test**  
**Biology, Anatomy, Conformation, Teeth and Measurement**

1. The scientific name of the horse is \_\_\_\_\_.
2. \_\_\_\_\_ is the physical or outward appearance of an animal.
3. The genetic make-up of an animal is known as it's \_\_\_\_\_.
4. Name five systems of the horse and give a function of each.
  
5. \_\_\_\_\_ connect bone to bone, while \_\_\_\_\_ connect muscle to bone.
6. \_\_\_\_\_ are body tissue that \_\_\_\_\_ and \_\_\_\_\_ contract when stimulated to produce bodily movement.
7. Name the three types of muscle and tell where each might be found.
  
8. \_\_\_\_\_ is the act of taking in \_\_\_\_\_ and removing \_\_\_\_\_ . We call this breathing.
9. Horses can only breathe through their \_\_\_\_\_.
10. What is circulation?
11. What are three of the functions of blood?
12. \_\_\_\_\_ move blood away from the heart, while \_\_\_\_\_ transport blood back to the heart.
13. The digestive system of the horse is approximately \_\_\_\_\_ feet long.
14. \_\_\_\_\_ is the process that takes in food, \_\_\_\_\_ it down, collects beneficial \_\_\_\_\_, and excretes any \_\_\_\_\_.

15. A unique feature of the horse is that it cannot \_\_\_\_\_.
16. \_\_\_\_\_ is the first milk that the mother gives and contains needed \_\_\_\_\_.
17. Foals should suckle within \_\_\_\_\_ after birth.
18. \_\_\_\_\_ is the general body form and shape of the horse.
19. Regardless of the month in which the foal is born, its age is determined as of \_\_\_\_\_.
20. Mares have \_\_\_\_\_ permanent teeth and males have \_\_\_\_\_.
21. The \_\_\_\_\_ ligament allows the horse to sleep standing up.
22. The suspensory ligament forms a sling around the \_\_\_\_\_ joint providing support and keeping it from collapsing to the ground.
23. Most of the horse's weight is carried on its \_\_\_\_\_ legs.
24. A horse's thrust and power come from his \_\_\_\_\_.
25. A horse's front legs reach out to carry his weight and absorb \_\_\_\_\_.
26. Name one conformation fault found in the following areas of the horse's body.
- A. Head or Neck:
  - B. Chest or Shoulder:
  - C. Back, Topline, or Barrel:
  - D. Hind Quarters:
27. At \_\_\_\_\_ years of age, a horse is said to have a full mouth.
28. A horse's front teeth are called \_\_\_\_\_ and are used to \_\_\_\_\_ grass.
29. A horse's back teeth are called \_\_\_\_\_ and are used to \_\_\_\_\_ feed.
30. Horse's teeth grow \_\_\_\_\_ their life.

31. \_\_\_\_\_ teeth are small vestigial teeth that can grow in front of the molars and should be removed, because they can interfere with the bit.
32. A hook appears on the corner upper incisor at ages \_\_\_\_ and \_\_\_\_.
33. Which indicate the teeth of a younger horse, cups or dental star?
34. \_\_\_\_\_ groove appears on the top of the corner incisor at about 10 years of age. It is about 1/2 way down by 15 and all the way down by \_\_\_\_\_.
35. A horse's teeth should be \_\_\_\_\_ once a year to reduce sharp points due to uneven wear.
36. The term \_\_\_\_\_ \_\_\_\_\_ refers to the conformation where the upper teeth extend beyond the lower teeth.
37. Why is conformation so important?
38. Label 15 parts of the horse on attached picture.
39. Label cranial, caudal, dorsal, ventral, dorsal leg, palmer leg, proximal, and distal on the parts picture.
40. Label the conformation defects of the horse on the attached picture.
41. Name the joints of the front and rear legs of the horse and the corresponding joints of the human arm/hand and leg/foot.

42. How many bones are there in the horse's body?
43. Horses are measured in \_\_\_\_\_.
44. A \_\_\_\_\_ is \_\_\_\_\_ inches.
45. A horse should be measured at the highest point of the \_\_\_\_\_.
46. A horse that is 15.3 hands tall is how many inches tall?
47. If a horse is 66 inches tall, how many hands is this horse?
48. "Bone" is measured around the \_\_\_\_\_ leg, just below the \_\_\_\_\_.
49. True or False. The measurement of bone actually includes the tendons as well.
50. For what reasons might you need the weight of your horse? Give two.
  
51. What are two vital organs that a large heart girth gives room for?
52. Good bone in a horse is at least \_\_\_\_\_ to \_\_\_\_\_ inches.
53. Draw and label the parts of the hoof.