

**MN FFA STATE Small Animal / Vet Science**  
**Career Development Event**  
**Written Test**

**Anatomy, Physiology, & Veterinary Terminology**

1. Division of sex cells in which the cell receives half the chromosomes from each parent is called \_\_\_\_\_.
  - a. Division
  - b. Meiosis
  - c. Mitosis
  - d. Prophase
2. The prefix “per” can be defined as:
  - a. Across
  - b. Beyond
  - c. More than normal
  - d. Throughout
3. The suffix that refers to a state of inflammation.
  - a. -ia
  - b. -ion
  - c. -itis
  - d. -osis
4. Cephalic means:
  - a. Belly or underside
  - b. Midline or nearest to the beginning of a structure
  - c. Nose end of the head
  - d. Pertaining to the head
5. Tarsus and Metatarsus bones can be found on the:
  - a. Back
  - b. Front Legs
  - c. Head
  - d. Rear Legs
6. Connective tissue \_\_\_\_\_.
  - a. Holds and supports body parts
  - b. Creates movement of body parts
  - c. Covers body surfaces and lines body cavities
  - d. Responds to stimuli and transmits nerve impulses
7. These feathers have tips that break down as they mature and release a talc-like powder that provides waterproofing and luster.
  - a. Contour feathers
  - b. Powder-down feathers
  - c. Down feathers
  - d. Filoplume feathers

8. \_\_\_\_\_ is the study of body structure.
- Anatomy
  - Biotechnology
  - Physiology
  - Terminology
9. During this period of the estrus cycle, the reproductive system assumes pregnancy. The fully functional corpus luteum releases high levels of progesterone.
- Diestrus
  - Estrus
  - Metestrus
  - Proestrus
10. \_\_\_\_\_ refers to an inadequate supply of oxygen to tissue despite an adequate blood supply.
- Agonal breathing
  - Apnea
  - Hypoxia
  - Hyperpnea
11. If you have a dog with a brachycephalic, one could describe it as:
- Pushed in face
  - Short Tail
  - Elongated Muzzle
  - Erect Ears
12. Zoonoses is defined as:
- Diseases that change rapidly
  - Disease that can be transmitted from animals to humans
  - Disease caused by humans
  - Disease that primarily infect exotic animals found in zoos

### **Nutrition and Feeding**

13. Vitamin \_\_\_\_ is water soluble, not fat soluble.
- A
  - B
  - D
  - E
14. Carbohydrates are needed for the following except:
- Developing the fetus
  - Producing heat to keep the body warm
  - Supporting bodily functions
  - Storing fat
15. \_\_\_\_\_ is considered a Macromineral.
- Calcium
  - Copper
  - Iron
  - Zinc

16. \_\_\_\_\_ is necessary for the absorption and utilization of Vitamin E.
- Cobalt
  - Iodine
  - Niacin
  - Selenium
17. According to the AKC's website, \_\_\_\_\_ percent of the United States dog population is considered obese.
- 13%
  - 32%
  - 56%
  - 74%
18. Grit is sometimes needed to promote action of the \_\_\_\_\_.
- Cecum
  - Gizzard
  - Liver
  - Spleen
19. Ferrets are considered \_\_\_\_\_.
- Carnivores
  - Herbivores
  - Insectivores
  - Omnivores
20. The lining of the rumen appearances to resemble this:
- Fingerlike projections
  - Honeycomb shapes
  - Many flaps
  - Smooth lining
21. The Jejunum is the \_\_\_\_\_ portion of the small intestine.
- First
  - Middle
  - Last
  - Proximal
22. Superfoods are popular within human diets as well as making trends within pet diets. The following superfoods are acceptable within a dog's diet.
- Cranberries
  - Dandelion Greens
  - Parsely
  - All of the above
23. Fish need fats within their nutritional ration. Fat content should range from \_\_\_\_\_.
- 1-7%
  - 4-15%
  - 23-35%
  - 40-57%

24. Fish should be fed 2-3 times per day, and should only receive what they can consume in \_\_\_\_\_ minutes.
- a. 1-2
  - b. 3-5
  - c. 6-8
  - d. 9-11

**Health Care: Prevention, Causes, Symptoms, & Treatment**

25. \_\_\_\_\_ is a disease that causes severe vomiting and diarrhea. The disease was first isolated in 1971 from the feces of military dogs.
- a. Canine Distemper
  - b. Canine Hepatitis
  - c. Coronavirus
  - d. Rabies
26. \_\_\_\_\_ are larvae stages of the Trombiculid mites; only the larval stages are parasitic.
- a. Chiggers
  - b. Fleas
  - c. Mites
  - d. Ticks
27. \_\_\_\_\_ is a disease caused by Pasteurella bacteria. Symptoms of the disease include persistent sneezing with a white-colored nasal discharge.
- a. Fur Mites
  - b. Mastitis
  - c. Snuffles
  - d. Weepy Eyes
28. \_\_\_\_\_ are very hardy and if well cared for, will seldom be affected by disease.
- a. Cats
  - b. Dogs
  - c. Gerbils
  - d. Rabbits
29. Pregnant female Guinea Pigs may develop \_\_\_\_\_ in late pregnancy. Affected females will be lethargic, go off their feed, refuse to eat, and have difficulty breathing.
- a. Abscessed Lymph Nodes
  - b. Malocclusion
  - c. Otitis
  - d. Toxemia
30. With birds, at the first sign of illness, a bird should be provided \_\_\_\_\_.
- a. A cool environment
  - b. Rest
  - c. Limited Food
  - d. Electrolytes

31. Within fish, white spot is also known as \_\_\_\_\_.
- White Fungus
  - Slime Disease
  - Ich
  - Velvet Disease
32. \_\_\_\_\_ is a contrast material used for radiographic studies to evaluate the gastrointestinal tract.
- Barium
  - Chyme
  - Hydrochloric Acid
  - Mucoid
33. Polyuria can be defined as:
- Blood in Urine
  - Excessive Urination
  - Pus in Urine
  - Slow or painful urination
34. Another name for a nosebleed is \_\_\_\_\_.
- Atelectasis
  - Aspiration
  - Cyanosis
  - Epistaxis
35. Cellulitis can be described as:
- Inflammation of connective tissue
  - Increased response to an allergen
  - hair loss resulting in hairless patches
  - Buildup of sebum and keratin in a pore
36. There are three types of filtration that can be used within aquariums, except:
- Biological
  - Chemical
  - Mechanical
  - Sustainable

### **Reproduction, Breeding, Genetics, Breeds and Selection**

37. The AKC currently recognizes \_\_\_\_\_ breeds of dogs.
- 132
  - 145
  - 197
  - 210
38. A rabbit has a gestation period length of \_\_\_\_\_ days.
- 18-20
  - 22-24
  - 27-29
  - 30-32

39. Connective and adipose tissue organized into lobes and lobules that contain milk-secreting sacs are called \_\_\_\_\_.
- Glands
  - Udder
  - Alveoli
  - Papillary Duct
40. The first milk produced by the mother is called \_\_\_\_\_.
- Estrus
  - Antibodies
  - Colostrum
  - Calcium
41. Estrus in cats is induced by:
- Shortening daylight and rising temperatures
  - Shortening daylight and lowering temperatures
  - Lengthening daylight and lowering temperatures
  - Lengthening daylight and rising temperatures
42. Young gerbils become sexually mature between \_\_\_\_\_ of age.
- 3-4 weeks
  - 9-12 weeks
  - 3-4 months
  - 9-12 months
43. Some species of cichlids are mouth brooders. During this incubation period parents do not eat for approximately \_\_\_\_\_.
- 3-5 days
  - 7 days
  - 2-3 weeks
  - 4-5 weeks

**Safety, Handling & Sanitation; Equipment/Facilities**

44. Ornamental fish prefer the water pH of \_\_\_\_\_.
- 3.8-4.3
  - 6.8-7.3
  - 7.8-8.3
  - 11.6-12.3
45. When determining the number of fish you should have within a tank, a rule of thumb is to have no more than 1 inch of fish for every \_\_\_\_\_ of surface area in a tropical freshwater aquarium.
- 10 square inches
  - 15 square inches
  - 20 square inches
  - 25 square inches

46. What type of diet requires the least amount of calories?
- Gestation
  - Growth
  - Maintenance
  - Lactation
47. When birds are being trained to talk, sessions should be limited to \_\_\_\_\_ minutes.
- 8 minutes
  - 15 minutes
  - 18 minutes
  - 24 minutes
48. A cage in which the environment is used for keeping land or terrestrial animals.
- Atrium
  - Vivarium
  - Aquarium
  - Terrarium
49. A single bird cage 3' x 2' x 2' would be appropriate for a:
- Cockatiel
  - Finches
  - Canaries
  - Amazon Parrot
50. CFA disapproves of declawing of cats. This procedure is called \_\_\_\_\_.
- Onychectomy
  - Ileectomy
  - Orchiectomy
  - Pneumonectomy