

**2013 Veterinary Science CDE
Written Exam**

1. Name the four stomach compartments of a ruminant, in the correct order.
 - a. Rumen, reticulum, abomasum, omasum
 - b. Rumen, reticulum, omasum, abomasum
 - c. Reticulum, rumen, abomasum, omasum
 - d. Reticulum, rumen, omasum, abomasum
2. Which is **not** typically observed with a patient in shock?
 - a. Pale gums
 - b. Weak pulse
 - c. Capillary refill time of 1 second
 - d. Rapid heart rate
3. What is the common name for the third metacarpal or third metatarsal bone of a horse?
 - a. Cannon bone
 - b. Pastern
 - c. Coffin bone
 - d. Frog
4. Which bacterium is the causative agent for blackleg disease?
 - a. *Clostridium perfringens*
 - b. *Clostridium tetani*
 - c. *Clostridium hemolyticum*
 - d. *Clostridium chauvoei*
5. What is the correct order, from head to tail, for the regions of a canine vertebral column?
 - a. Cervical, thoracic, lumbar, sacral, and coccygeal
 - b. Cervical, thoracic, lumbar, caudal, and sacral
 - c. Cranial, thoracic, lumbar, sacral, and caudal
 - d. Coccygeal, thoracic, lumbar, sacral, and cervical
6. What part of a chicken's gastrointestinal system stores and softens food before it reaches the stomach?
 - a. Ventriculus
 - b. Cloaca
 - c. Crop
 - d. Furcula
7. Which organ is **not** part of the endocrine system?
 - a. Thyroid gland
 - b. Kidney
 - c. Pancreas
 - d. Ovaries

8. Which compartment of the heart forces the blood into the systemic circulation?
 - a. Right ventricle
 - b. Left ventricle
 - c. Right atrium
 - d. Left atrium
9. What value would be elevated in a serum chemistry panel for an animal with azotemia?
 - a. Glucose
 - b. Albumin
 - c. Alkaline phosphatase
 - d. Creatinine
10. Which is a function of the pancreas?
 - a. Fat digestion
 - b. Fiber degradation
 - c. Bile production
 - d. HCl production
11. Which is not a parenteral route of administering medication?
 - a. Intravenous
 - b. Subcutaneous
 - c. Intranasal
 - d. Oral
12. Which of the following is a type of white blood cell?
 - a. Erythrocyte
 - b. Adipocyte
 - c. Monocyte
 - d. Thrombocyte
13. What is the name of the third eyelid in cats?
 - a. Levator palpebra
 - b. Nictitating membrane
 - c. Medial canthus
 - d. Descemet's membrane
14. Which term indicates difficult or labored breathing?
 - a. Bradycardia
 - b. Bradypnea
 - c. Dyspnea
 - d. Hyperpnea
15. Which vitamin is water soluble?
 - a. Vitamin A
 - b. Vitamin B
 - c. Vitamin E
 - d. Vitamin K

16. Which term best describes a change in normal chromosome number?
- Mutation
 - Aberration
 - Deletion
 - Adaptation
17. What is one role of iron in the body?
- Aids in glucose production
 - Transports waste from the bloodstream
 - Involved with hemoglobin formation
 - Prevents grass tetany if in high enough levels in the blood
18. Which mineral is necessary for the absorption and utilization of Vitamin E?
- Calcium
 - Phosphorus
 - Copper
 - Selenium
19. Which of the following provides the least amount of nutrients to birds and other exotic species?
- Millet
 - Lettuce
 - Dandelion leaf
 - Spinach
20. What are the three terms used to describe the entry of the fetus in the birth canal during parturition?
- Parallel, vertical, and horizontal
 - Position, posture, and presentation
 - Diagonal, transverse, and vertical
 - Presentation, size, and position
21. The purpose of semen evaluation is to measure
- Libido
 - Genetics
 - Fertility
 - Anatomy
22. During inspiration, what does the diaphragm do?
- Contracts, drawing it closer to the thorax
 - Contracts, drawing it closer to the abdomen
 - Relaxes, allowing the chest to expand
 - Relaxes, lowering the pressure in the chest
23. What is the average length of gestation in dogs?
- 56 days
 - 63 days
 - 70 days
 - 77 days

24. Which animal is an induced ovulator?
- a. Cat
 - b. Dog
 - c. Goat
 - d. Horse
25. Which animal is a long-day breeder?
- a. Cat
 - b. Dog
 - c. Goat
 - d. Horse
26. Which pair of genes may cause various genetic abnormalities or even death when expressed?
- a. Homozygous recessive
 - b. Homozygous dominant
 - c. Heterozygous
 - d. Codominant
27. Which is not a task that can legally be performed by a paraprofessional?
- a. Administer a feline leukemia vaccine
 - b. Apply a bandage to a patient's leg
 - c. Administer medication to a boarding animal
 - d. Write a prescription for a patient
28. What does MSDS stand for?
- a. Material Safety Data Sheet
 - b. Molecular Surface of Disease Substitution
 - c. Material Score & Data Sheet
 - d. Mean State of Disease Submission
29. Which prepares calves for shipment to a feedlot?
- a. Pre-breeding and sorting
 - b. Pre-harvesting and pre-conditioning
 - c. Breeding and harvesting
 - d. Pre-conditioning and backgrounding
30. Reptiles need _____ for calcium metabolism, Vitamin D synthesis, and metabolic bone disease prevention.
- a. Phosphorus
 - b. Cool temperatures
 - c. Ultraviolet light
 - d. Live insects to feed on

31. In which situation would the animal's energy requirement generally be the lowest?
- Pregnant mare in November
 - Lactating dairy cow in April
 - Buck in July
 - Feedlot steer in February
32. Which of the following is an example of passive immunity?
- A foal drinking colostrum
 - A kitten drinking milk replacer
 - A dog vaccinated subcutaneously against rabies
 - A dog vaccinated intranasally against *Bordetella*
33. Which of the following is not a characteristic of a malignant neoplasm?
- Clearly defined edges
 - Potential for metastasis
 - Invades surrounding tissue
 - Grows quickly
34. Which is a sign of submission, fear, or illness?
- Tucked tail
 - Making eye contact
 - Ears up and forward
 - Laying down on the exam table
35. Ethylene glycol can cause severe damage to which organ?
- Liver
 - Kidney
 - Pancreas
 - Ovary
36. What is generally **not** considered a congenital anomaly?
- Umbilical hernia
 - Six toes on both front paws
 - Cleft palate
 - Arthritis
37. Which of the following is **not** toxic to animals?
- Roses
 - Onions
 - Red maple
 - Japanese Yew
38. Which disease does not cause abortion?
- Brucellosis
 - Bovine viral diarrhea
 - Coccidiosis
 - Bovine trichomoniasis

39. Which test is used to evaluate corneal injury?
- Fluorescein dye
 - Schirmer tear test
 - Intraocular pressure
 - Menace response
40. What is the common name for Dermatophytosis?
- Pyoderma
 - Ringworm
 - Demodectic mange
 - Louse
41. Which is not an example of a fomite?
- Water bowl
 - Rope toy
 - Bottle nipple
 - Face fly
42. Which infectious disease causes diamond-shaped skin lesions in pigs?
- Leptospirosis
 - Erysipelas
 - Swine dysentery
 - Botulism
43. To properly apply a splint for a radial/ulnar fracture in a dog, which joints must be immobilized to provide fracture stability?
- Carpus and elbow
 - Shoulder and elbow
 - Metacarpus and elbow
 - Tarsus and elbow
44. Which term describes the telescoping of the bowel onto itself?
- Impaction
 - Inguinal hernia
 - Intussusception
 - Inception
45. Which is/are **not** included in the six major classifications of diseases?
- Toxins, Trauma
 - Nutrition, Neoplasm
 - Degenerative
 - Mutations
46. What are the three types of animal restraint?
- Physical, psychological, and hypnotic
 - Traumatic, chemical, and physical
 - Chemical, hypnotic, and psychological
 - Chemical, psychological, and physical

47. What are the five stages of density on a radiograph, in order from most radiopaque to most radiolucent?
- a. Air, fat, muscles, organs, and bone
 - b. Air, fat, soft tissue, bone, and mineral
 - c. Mineral, bone, soft tissue, fat, and air
 - d. Bone, organs, muscles, fat, and air
48. Which instrument is used to measure urine-specific gravity?
- a. Centrifuge
 - b. Refractometer
 - c. Tonometer
 - d. Sphygmomanometer
49. Which instrument is used to measure blood pressure?
- a. Centrifuge
 - b. Refractometer
 - c. Tonometer
 - d. Sphygmomanometer
50. Which vaccine may be given intranasally?
- a. Lyme disease vaccine
 - b. *Bordetella* vaccine
 - c. Rabies vaccine
 - d. Parvovirus/distemper vaccine