

**2013 Veterinary Science CDE  
Written Exam KEY**

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?
- Right ventricle
  - Left ventricle**
  - Right atrium
  - Left atrium
9. What value would be elevated in a serum chemistry panel for an animal with azotemia?
- Glucose
  - Albumin
  - Alkaline phosphatase
  - Creatinine**
10. Which is a function of the pancreas?
- Fat digestion**
  - Fiber degradation
  - Bile production
  - HCl production
11. Which is not a parenteral route of administering medication?
- Intravenous
  - Subcutaneous
  - Intranasal
  - Oral**
12. Which of the following is a type of white blood cell?
- Erythrocyte
  - Adipocyte
  - Monocyte**
  - Thrombocyte
13. What is the name of the third eyelid in cats?
- Levator palpebra
  - Nictitating membrane**
  - Medial canthus
  - Descemet's membrane
14. Which term indicates difficult or labored breathing?
- Bradycardia
  - Bradypnea
  - Dyspnea**
  - Hyperpnea
15. Which vitamin is water soluble?
- Vitamin A
  - Vitamin B**
  - Vitamin E
  - 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?
- Cat**
  - Dog
  - Goat
  - Horse
25. Which animal is a long-day breeder?
- Cat
  - Dog
  - Goat
  - Horse**
26. Which pair of genes may cause various genetic abnormalities or even death when expressed?
- Homozygous recessive**
  - Homozygous dominant
  - Heterozygous
  - Codominant
27. Which is not a task that can legally be performed by a paraprofessional?
- Administer a feline leukemia vaccine
  - Apply a bandage to a patient's leg
  - Administer medication to a boarding animal
  - Write a prescription for a patient**
28. What does MSDS stand for?
- Material Safety Data Sheet**
  - Molecular Surface of Disease Substitution
  - Material Score & Data Sheet
  - Mean State of Disease Submission
29. Which prepares calves for shipment to a feedlot?
- Pre-breeding and sorting
  - Pre-harvesting and pre-conditioning
  - Breeding and harvesting
  - Pre-conditioning and backgrounding**
30. Reptiles need \_\_\_\_\_ for calcium metabolism, Vitamin D synthesis, and metabolic bone disease prevention.
- Phosphorus
  - Cool temperatures
  - Ultraviolet light**
  - 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?
- Air, fat, muscles, organs, and bone
  - Air, fat, soft tissue, bone, and mineral
  - Mineral, bone, soft tissue, fat, and air**
  - Bone, organs, muscles, fat, and air
48. Which instrument is used to measure urine-specific gravity?
- Centrifuge
  - Refractometer**
  - Tonometer
  - Sphygmomanometer
49. Which instrument is used to measure blood pressure?
- Centrifuge
  - Refractometer
  - Tonometer
  - Sphygmomanometer**
50. Which vaccine may be given intranasally?
- Lyme disease vaccine
  - Bordetella vaccine**
  - Rabies vaccine
  - Parvovirus/distemper vaccine