

**2014 Veterinary Science CDE
Written Exam KEY**

1. What is the common name for the third phalanx of a horse? (R51)
 - a. Cannon bone
 - b. Pastern
 - c. Coffin bone**
 - d. Frog

2. During inspiration, what does the diaphragm do? (last year L&B78)
 - a. Relaxes, allowing the chest to expand
 - b. Contracts, drawing it closer to the thorax
 - c. Contracts, drawing it closer to the abdomen**
 - d. Relaxes, lowering the pressure in the chest

3. Which condition is non-infectious in horses? (L&B81)
 - a. Pneumonia
 - b. Endocarditis
 - c. Heaves**
 - d. Enteritis

4. What is the medical term for eardrum? (R298)
 - a. Eustachian membrane
 - b. Descemet's membrane
 - c. Nictitating membrane
 - d. Tympanic membrane**

5. Ethylene glycol can cause severe damage to which organ? (last year, F252)
 - a. Liver
 - b. Kidney**
 - c. Pancreas
 - d. Ovary

6. Which is produced in the medulla of the adrenal gland? (R229)
 - a. Aldosterone
 - b. Epinephrine**
 - c. Insulin
 - d. Cortisol

7. What establishes the basic rhythm of the mammalian heart, also known as the pacemaker? (L&B62)
 - a. Papillary muscles
 - b. Bundle of His
 - c. Atrioventricular node
 - d. Sinoatrial node**

8. Which term means "hypersalivation"? (R112)
 - a. Ptyalism**
 - b. Prehension
 - c. Peristalsis
 - d. Polydipsia

9. Which nutrient can be added to increase palatability to a food? (L&B193)
- Carbohydrate
 - Protein
 - Fat**
 - Water
10. Which infectious disease involves the respiratory system? (L&B223)
- Fowl salmonellosis
 - Canine distemper**
 - Canine coronavirus
 - Canine giardiosis
11. Which term means “urinating more frequently”? (R147)
- Pyuria
 - Proteinuria
 - Polyuria
 - Pollakiuria**
12. What is the muscular stomach of a chicken’s gastrointestinal tract called, also known as the gizzard? (R425)
- Ventriculus**
 - Cloaca
 - Crop
 - Furcula
13. Cats need increased quantities of certain amino acids compared to dogs. Which of the following is not needed at an increased quantity? (F106)
- Taurine
 - Arginine
 - Methionine
 - Lysine**
14. What percentage of water loss is considered very serious but generally not life threatening? (L&B193)
- 5% of the body’s water
 - 10% of the body’s water**
 - 15% of the body’s water
 - 20% of the body’s water
15. Which vitamin is not considered an antioxidant? (L&B194)
- Vitamin K**
 - Vitamin E
 - Vitamin C
 - Vitamin A
16. What hormone does the corpus luteum provide? (L&B129)
- Estrogen
 - Progesterone**
 - Luteinizing hormone
 - Follicle stimulating hormone

17. What hormone stimulates “milk let-down”? (L&B133)

- a. Estrogen
- b. Lactose
- c. Oxytocin**
- d. Progesterone

18. What is the medical term for a failure of one or both testes to descend into the scrotum? (R253, L&B137)

- a. Orchitis
- b. Cryptorchidism**
- c. Scrotal hydrocele
- d. Epididymitis

19. What does pyometra mean? (R254, L&B137)

- a. Infection with pus in the uterus**
- b. Abnormally formed uterus
- c. Increased temperature of the uterus
- d. Fluid in the uterus

20. What is the average length of gestation in swine? (L&B132)

- a. 3 months, 3 weeks, 12 hours
- b. 3 months, 3 days, 3 hours
- c. 2 months, 2 weeks, 2 days
- d. 3 months, 3 weeks, 3 days**

21. If a heterozygous polled cow (Pp) is bred with a heterozygous polled bull (Pp), what fraction represents the offspring that will have horns? (F77)

- a. 1/4**
- b. 1/2
- c. 3/4
- d. 0/4

22. Which term specifically describes a genetic defect present at birth? (R22)

- a. Aberration
- b. Congenital**
- c. Anomaly
- d. Inherited

23. Which anatomical site does not contain a cartilage joint? (L&B35)

- a. Growth plate of a long bone
- b. Suture in the skull**
- c. Between the halves of the lower jaw
- d. Between two vertebrae

24. Which term means “abnormal accumulation of fluid in the abdomen”? (R124)
- Ascites**
 - Atresia
 - Achalasia
 - Ascariasis
25. Polioencephalomalacia occurs because of what deficiency? (L&B197)
- Cobolamin
 - Thiamine**
 - Selenium
 - Calcium
26. If a client became angry and argumentative during an office visit who should you, the veterinary assistant, find to handle the situation? (F20)
- Veterinarian**
 - Receptionist
 - Technician
 - Office manager
27. Which is not a vector borne disease? (L&B218)
- Blackleg**
 - Heartworm Disease
 - Lyme Disease
 - Pinkeye
28. Why are cuttle bones an important feature in a bird’s environment? (W473)
- Provides magnesium to young birds
 - Promotes good beak health
 - Promotes interaction with other birds
 - Provides calcium to egg-laying females**
29. What would you use to measure intraocular pressure? (R294)
- Goniometry
 - Slit lamp examination
 - Tonometry**
 - Cycloplegics
30. Which term describes mass prophylactic use of antibiotics in livestock during times where there is a high risk of illness? (L&B247)
- Metaphylaxis**
 - Anaphylaxis
 - Quarantine
 - Paraphylaxis
31. What is the only class of immunoglobulins that can cross the placenta? (R321)
- IgA
 - IgE
 - IgG**
 - IgM

32. A cataract is a cloudiness of what part of the eye? (R295)
- Lens**
 - Retina
 - Choroid
 - Cornea
33. What organ stimulates the pituitary gland to act? (R226)
- Hypothalamus**
 - Neurohypophysis
 - Hypophysis
 - Hyperthalamus
34. When a twisted stomach occurs, which of the cow's four stomach compartments becomes displaced? (L&B18)
- Rumen
 - Omasum
 - Reticulum
 - Abomasum**
35. Which toxin does not cause anemia in pets? (L&B257)
- Chocolate**
 - Onions
 - Zinc
 - Lead
36. What are the technical names, in the correct order, for the "hooks and pins" of a cow? (R53)
- Ischium and ilium
 - Ilium and ischium**
 - Acetabulum and Ilium
 - Ilium and acetabulum
37. An infestation of which parasite may lead to "wry neck" in rabbits? (W270)
- Fur mites
 - Ear mites**
 - Ringworm
 - Pinworm
38. Which neoplasm is benign? (R324)
- Adenocarcinoma
 - Squamous cell carcinoma
 - Hemangioma**
 - Osteosarcoma
39. Which term is not based on science? (F13)
- Animal husbandry
 - Animal welfare
 - Animal nutrition
 - Animal rights**

40. Which disease is caused by a retrovirus? (W231)
- Feline panleukopenia
 - Feline rhinotracheitis
 - Feline infectious peritonitis
 - Feline leukemia**
41. Which task does not help prevent ammonia from reaching harmful levels in an aquarium? (W527)
- Changing filters regularly
 - Avoiding overpopulation
 - Avoiding changing the water**
 - Feeding only what the fish will eat daily
42. Which of the following would not cause brown or orange stains on surgical instruments? (S7)
- Ammonia**
 - Chlorohexadine
 - Saline
 - Laundry soap
43. Which is not a physiological response to pain? (F50)
- Elevated blood sugar
 - Dilated pupils
 - Shallow breathing
 - Muscle rigidity**
44. Which best describes a scenario where it may be best not to bandage a wound on the lower leg of a horse? (F162)
- Tall grassy pasture
 - Long tail on horse
 - Fly season
 - Humid weather**
45. Which bacterium is the causative agent for foot rot? (L&B221)
- Actinobacillus lignieresii*
 - Mannheimia hemolytica*
 - Mycobacterium paratuberculosis*
 - Fusobacterium necrophorum***
46. What are the five stages of density on a radiograph, in order from most radiopaque to most radiolucent? (last year)
- 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
47. Which disease is zoonotic and transmitted via direct contact of contaminated water and soil? (F200)
- Leptospirosis**
 - Q fever
 - Canine parvo
 - Plague

48. Even if not sterilized right away, surgical instruments should be washed within what time to avoid corrosion and staining? (S4)
- a. 10
 - b. 20**
 - c. 30
 - d. 40
49. Which is a disadvantage of using a killed vaccine compared to a modified live vaccine? (L&B180)
- a. Has to be reconstituted
 - b. Shorter duration of protection**
 - c. Easily inactivated with sunlight
 - d. Not safe in pregnant animals
50. In patients with congestive heart failure, which of the following should be restricted in the diet? (F292)
- a. Phosphorus
 - b. Fat soluble vitamins
 - c. Protein
 - d. Sodium**