## **DODVPR 2016 End of Year Self Assessment Small Animal**

- 1. Write your name above and on each page of the exam packet.
- 2. For each question, select the <u>ONE</u> best answer and mark it on the answer sheet.
- 3. Use capital letters on your answer sheet.
- 4. Credit will be given only for correct answers recorded on the answer sheet.
- 5. All questions for which more than one answer is marked will be recorded as incorrect.
- 6. No credit will be awarded or deducted for incorrect answers.
- 7. Turn in BOTH your answer sheet and the exam question packet at the conclusion of the exam.

## 2016 Small Animal Mock Exam

1		
2	 	
3		
4		
5		
6	 	
7	 	
8	 	
9		
10.	 	
11.	 	
12.	 	
13.	 	
14.		
15.		
16.		
17.		
18.		
19.	 	
20.		
21.	 	
22.	 	
23.		

24. \_\_\_\_\_

25. \_\_\_\_\_

Name:
-------

## 2016 End of Year Self Assessment Small Animal

- 1. Melanin may be produced by pathogenic organisms as a virulence factor. What enzyme produces melanin in *Cryptococcus neoformans*?
  - a. Laccase
  - b. tyrosinase
  - c. phosphatidyl melinase
  - d. catalase
- 2. Which of the following histologic findings is most likely to be associated with chronic intestinal pseudo-obstruction in dogs?
  - a. Segmental hypertrophy and hyperplasia of the tunica muscularis
  - b. Lymphoplasmacytic myositis with myofiber degeneration of the tunica muscularis
  - c. Transmural eosinophilic sclerosing fibroplasia
  - d. Lymphohistiocytic myenteric ganglioneuritis
- 3. Metaphyseal sclerosis in dogs due to transient impairment of osteoclastic resorption is associated with ?
  - a. Canine morbillivirus
  - b. Canine influenza H3N8
  - c. Canine parvovirus 2
  - d. Canine circovirus
- 4. Canine globoid cell leukodystrophy is due to a defect in lysosomal:
  - a. Sphingomyelinase
  - b. galactocerebrosidase
  - c. Beta-hexosaminidase
  - d. Beta-galactosidase
- 5. According to a recent report, cats with hypertrophic cardiomyopathy as well as lymphohisticcytic myocarditis should be tested for which of the following?
  - a. FeLV
  - b. FIV
  - c. Calicivirus
  - d. Feline parvovirus
- 6. In dogs, pemphigus vulgaris autoantibodies recognize which of the following?
  - a. BPA180
  - b. desmocollin 1
  - c. desmoglein 3
  - d. type VII collagen
- 7. What is the major mechanism of action in ethylene glycol toxicosis in dogs and cats?

- a. Ethylene glycol oxidized to glycoaldehyde, which causes ATP depletion and damage to membrane phospholipids.
- b. Ethylene glycol causes renal vasoconstriction and is directly toxic to renal tubular epithelial cells.
- c. Ethylene glycol accumulates in lysosomes of renal tubular epithelial cells and inhibits phospholipases, resulting in lysosmal dysfunction and leakage.
- d. Ethylene glycol lyses erythrocytes, resulting in ischemic renal tubular necrosis.
- 8. Feline chronic kidney disease is associated with upregulation of:
  - a. Transglutaminase 2
  - b. Lysl oxidase
  - c. GLUT 1
  - d. VEGFA
- 9. All of the following *EXCEPT* \_\_\_\_ are likely etiologic agents in a cat with ulcerative rhinitis and stomatitis with conjunctivitis.
  - a. Feline calicivirus
  - b. Feline herpesvirus 1
  - c. Chlamydophila spp.
  - d. Bordetella bronchiseptica
- 10. Which is true regarding the mechanism of action of *Clostridium botulinum*?
  - Neurotoxin inhibits acetylcholine release at myoneural junction via cleavage of SNARE proteins
  - b. Neurotoxin spreads via retrograde axonal transport
  - c. Neurotoxin induces glutamine release from astrocytes causing glutamate induced neuronal necrosis
  - d. Neurotoxin inhibits inhibitory neurotransmitter at neural neural junction via cleavage of SNARE proteins
- 11. Feline infectious peritonitis virus replicates in which of the following?
  - a. Endothelial cells
  - b. Macrophages
  - c. B-lymphocytes
  - d. T-lymphocytes
- 12. Chiari-like malformation & syringomyelia are prevalent in which dog breed?
  - a. German shepherd
  - b. American Brussels Griffon
  - c. French bulldog
  - d. Wirehaired miniature dachshund
- 13. What clinical pathological feature is commonly associated with canine gastric leiomyomas?
  - a. Hypoalbuminemia
  - b. Hyperglobulinemia

- c. Hypoglycemia
- d. Elevated ALP
- 14. Which of the following is associated with decreased metallothionein labeling in canine chronic primary hepatitis?
  - a. Hepatic inflammation
  - b. Hepatic fibrosis
  - c. Hepatic regeneration
  - d. Hepatic glycogenosis
- 15. Which of the following parameters is most strongly associated with recurrence of canine perivascular wall tumors?
  - a. Tumor size
  - b. Mitotic index
  - c. Nuclear pleomorphism
  - d. Amount of necrosis
- 16. Miniature dachshunds are predisposed to:
  - a. Inflammatory colorectal polyps
  - b. Defects in cobalamin uptake
  - c. Hyperlipidemia
  - d. Osteogenesis imperfecta
- 17. Which of the following stains would be most useful for distinguishing canine osteosarcoma from fibrosarcoma?
  - a. Osteocalcin
  - b. Osteonectin
  - c. Vimentin
  - d. Osteoprotegrin
- 18. A cat with histiocytic vascular occlusion with cerebral infarcts likely has which of the following?
  - a. Globoid cell leukodystrophy
  - b. Histiocytic sarcoma
  - c. Feline infectious peritonitis virus
  - d. Cytauxzoon felis
- 19. Congenital hereditary lymphedema in dogs is thought to be caused by defective \_\_\_\_\_ on lymphendothelial cells.
  - a. VEGFR3
  - b.  $T1\alpha$  podoplanin
  - c. Ephrin B5
  - d. VEGFD
- 20. Which of the following is found in canine neutrophils?
  - a. Anaplasma phagocytophilum
  - b. Ehrlicia canis
  - c. Anaplasma platys
  - d. Rickettsia rickettsii

21. The following IHC pattern is most consistent with which condition?

Positive: CD11d/CD18, MHCII Negative: CD11c, E-cadherin

- a. Disseminated histiocytic sarcoma
- b. Cutaneous histiocytoma
- c. Disseminated histiocytosis
- d. Splenic hemophagocytic histiocytic sarcoma
- 22. Which of the following causes cytolytic infections of mucosal epithelial cells in cats with establishment of latency in the trigeminal ganglion, optic nerve, olfactory bulb and cornea?
  - a. Feline calicivirus
  - b. Feline herpesvirus 1
  - c. Canine morbillivirus
  - d. Feline coronavirus
- 23. Which subtype of feline leukemia virus is associated with neoplastic transformation & lymphoma?
  - a. FeLV-A
  - b. FeLV-B
  - c. FeLV-C
  - d. FeLV-D
- 24. A testicular neoplasm whose cells stain immunohistochemically with Sall4, PGP9.5 and PLAP (placental alkaline phosphatase) is most consistent with?
  - a. Seminoma
  - b. Interstitial cell tumor
  - c. Sertoli cell tumor
  - d. Yolk-sac carcinoma
- 25. Decreased/absent \_\_\_\_ may play a role in deficient tear production in dogs with keratoconjunctivitis sicca (KCS).
  - a. AQP2
  - b. AQP3
  - c. AQP4
  - d. AQP5