DODVPR 2016 End of Year Self Assessment Large Animal

- 1. Write your name above <u>and</u> 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 <u>or deducted</u> for incorrect answers.
- 7. Turn in BOTH your answer sheet and the exam question packet at the conclusion of the exam.

2016 Large 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 Large Animal

- 1. Which is the most common histologic finding in horses with West Nile virus?
 - a. Nonsuppurative meningoencephalomyelitis in the brainstem
 - b. Neuronal necrosis within cerebellar nuclei
 - c. Spinal cord neuronal degeneration with few intracytoplasmic viral inclusions
 - d. Cerebral cortical spongiosis with Alzheimer type II astrocytosis
- 2. The most likely cause of pyogranulomatous and fibrosing glossitis in an ox is:
 - a. Actinomyces bovis
 - b. Nocardia spp.
 - c. Staphylococcus aureus
 - d. Actinobacillus lignieresii
- 3. Which is true regarding Brachyspira spp. in swine?
 - a. It is chemotactically attracted to porcine mucus.
 - b. It has a tropism for immature dividing enterocytes
 - c. Due to a requirement for triphosphates it replicates in the apical enterocyte cytoplasm near the mitochondria.
 - d. Infected crypt cells divide continuously, disrupting normal maturation and resulting in decreased goblet cells
- 4. Bovine dermatosparaxis is due to which of the following?
 - a. Laminin 5 defect
 - b. Fibrillin 1 defect
 - c. Cyclophilin B defect
 - d. Procollagen I N-proteinase defect
- 5. Which of the following is the most consistent lesion in fetus with porcine arterivirus?
 - a. Cerebellar hypoplasia and arthryogryposis
 - b. Granulomatous intersitial pneumonia
 - c. Pulmonary hypoplasia
 - d. Segmental umbilical cord hemorrhage
- 6. A cow with gangrenous pododermatitis, hyperthermia and hypogalactia likely ingested:
 - a. paxilline
 - b. fumonisin B1
 - c. ergovaline
 - d. Lolitrem B
- 7. In swine, cerebral laminar cortical grey matter necrosis, edema & eosinophils are pathognomonic for:

- a. Thiamine deficiency
- b. Sulfur toxicity
- c. Lead toxicity
- d. Salt toxicity
- 8. Which is not a typical gross finding in African swine fever?
 - a. Abortion with anasarcous fetus
 - b. Multiple marginal splenic infarcts
 - c. Gallbladder edema
 - d. Hemorrhagic lymph nodes
- 9. The underlying defect in hyperkalemic periodic paralysis horses is:
 - a. Dynamin 1
 - b. Myotubularin
 - c. Skeletal muscle choride channel
 - d. Skeletal muscle sodium channel
- 10. Which is the mechanism of action of the *Bacillus anthracis* virulence determinant known as "edema factor"?
 - a. Creates a pore in the cell membrane
 - b. Increases intracellular levels of cAMP
 - c. Inactivates MAPK (JKP
 - d. Inhibits phagocytosis
- 11. Horses with cervical stenotic myelopathy had which of the following lesions in their cervical articular processes?
 - a. Fibrillation of the articular cartilage
 - b. True bone cysts
 - c. Osteophytes
 - d. Clusters of chondrones
- 12. A newborn lamb with hydranencaphly, arthrogryposis and loss of spinal ventral motor neurons is consistent with infection of which of the following?
 - a. Border disease virus
 - b. Bovine viral diarrhea virus
 - c. Akabane virus
 - d. Schmallenberg virus
- 13. Which is a likely etiology in a sheep with proliferative bronchiolitis/alveolitis with type II pneumocyte & bronchiolar hyperplasia, foamy macrophages with intracytoplasmic inclusions, necrosis & inflammation?
 - a. Lentivirus
 - b. Morbillivirus
 - c. Capripoxvirus
 - d. Adenovirus

- 14. What is the most likely underlying cause in a calf with severe cerebral spongy vacuolation of myelin as well as splitting of myelin lamellae at the intraperiod line on electron microscopy?
 - a. Prion disease (bovine spongioform encephalopathy)
 - b. Deficient branched-chain α -ketoacid dehydrogenase
 - c. Bovine pestivirus
 - d. Deficient β -galactosidase
- 15. Which of the following is associated with Hendra virus in horses?
 - a. Endothelial syncytial cells
 - b. Tropism for rapidly dividing cells
 - c. Destruction of lymphoid tissue
 - d. Necrosis of bronchial epithelial cells and alveolar macrophages
- 16. Which of the following is a cause of vertebral malformations in cattle?
 - a. Manganese deficiency
 - b. Vitamin A deficiency
 - c. Vitamin A toxicity
 - d. Parbendazole toxicity
- 17. A recent outbreak of sodium fluoroacetate intoxication in sheep was characterized by:
 - a. Myocardial necrosis & inflammation
 - b. Bilaterally symmetric poliomyelomalacia
 - c. Renal tubular ischemic necrosis
 - d. Centrilobular hepatic necrosis with marked cholestasis
- 18. The most pathognomonic histologic finding in swine influenza is?
 - a. Necrotizing bronchitis/bronchiolitis
 - b. Lymphoplasmacytic interstitial pneumonia
 - c. Alveolar proteinosis
 - d. Type II pneumocyte hyperplasia
- 19. The acute stage of Besnoitia spp. infection in cattle is associated with?
 - a. Dermal tissue cyst formation
 - b. Laminitis
 - c. Vascular lesions
 - d. Meningoencephalitis
- 20. Which cell types does the virulence factor, Aqx, of Actinobacillus equuli affect?
 - a. Erythrocytes and platelets
 - b. Erythrocytes and lymphocytes
 - c. Lymphocytes and macrophages
 - d. Lymphocytes and neutrophils
- 21. Lkt, the toxin from Mannheimia haemolytica, binds which of the following?
 - a. CD11a

- b. CD18
- c. L-selectin
- d. VLA-4

22. Which causes perirenal edema in swine?

- a. Amaranthus retroflexus
- b. Aminoglycoside
- c. Acer rubrum
- d. Vicia villosa
- 23. Hereditary glomerulonephritis of Finnish Landrace sheep is due to?
 - a. Defect in fibrocystin gene
 - b. Deficiency of C3
 - c. Factor H deficiency
 - d. Defective IgA
- 24. Which of the following is the likely etiology in an ox with diffuse lymphoblastic hyperplasia and Koch's blue bodies?
 - a. Theileria parva
 - b. Bovine leukemia virus
 - c. Cytauxzoon spp.
 - d. Malignant catarrhal fever virus
- 25. "Bright blindness" or progressive retinal degeneration in sheep has been associated with:
 - a. Taurine deficiency
 - b. Leptospira spp.
 - c. Bracken fern
 - d. Defects in paracellin-1