## 2015 Miniboard Exam Large Animal Blank

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- 1. Which of the following is NOT associated with *Clostridium perfringens* type A enterotoxemia in lambs?
  - a. Pulmonary edema
  - b. Hemoglobinuric nephrosis
  - c. Centrilobular hepatic necrosis
  - d. Bilaterally symmetric malacia of the middle peduncle
- 2. In pigs, an immunohistochemical stain that labels melanomacrophages but NOT melanocytes is:
  - a. PNL2
  - b. Lysozyme
  - c. Alpha-1 antitrypsin (A1AT)
  - d. Ionized calcium binding adaptor molecule-1 (Iba-1)
- 3. The progressive equine movement disorder, "shivers", is associated with which of the following?
  - a. Pars intermedia adenoma
  - b. Distal vagus nerve degeneration
  - c. Cerebellar Purkinje cell degeneration
  - d. Cervical spinal cord axon degeneration
- 4. Which of the following is seen in Friesian horses with megaesophagus?
  - a. Smooth muscle degeneration
  - b. Smooth muscle hypertrophy
  - c. Loss of myenteric plexi
  - d. Fibrosis
- 5. Which of the following cause loss of spinal ventral motor neurons and micromyelia in the bovine fetus?
  - a. Border disease virus
  - b. Schmallenberg virus
  - c. Bluetongue virus
  - d. Akabane virus
- 6. Which of the following is NOT associated with equine coronavirus?
  - a. Necrotizing enteritis
  - b. Proliferative enteritis
  - c. Intestinal microthrombosis
  - d. Hyperammonemic encephalopathy
- 7. Which of the following is NOT a malformation seen in Dandy-Walker syndrome in calves?

- a. Enlarged caudal fossa
- b. Cerebellar vermal aplasia
- c. Herniation of the cerebellar vermis
- d. Cystic dilation of the fourth ventricle
- 8. Which of the following is the receptor for *Mannheimia haemolytic* leukotoxin in cattle?
  - a. CD18
  - b. MHC II
  - c. FGFr-2
  - d. ICAM-1
- 9. Which of the following is NOT found in pigs with *Lawsonia intracellularis*-associated proliferative enteropathy?
  - a. Diarrhea
  - b. Hypoproteinemia
  - c. Necrotizing enteritis
  - d. Intestinal crypt hyperplasia
- 10. Which of the following have NOT been found in equine sarcoids?
  - a. Bovine papillomavirus-1
  - b. Bovine papillomavirus-2
  - c. Bovine papillomavirus-3
  - d. Bovine papillomavirus-13
- 11. Hyperinsulinemia in horses with equine metabolic syndrome is associated with which of the following lesions?
  - a. Pituitary adenoma
  - b. Osteochondrosis
  - c. Pancreatitis
  - d. Laminitis
- 12. Which of the following is NOT found in pigs with acute swine dysentery following oral inoculation with *Bracyspira* spp?
  - a. Decreased expression of sulfated mucins
  - b. Decreased expression of MUC5AC
  - c. Decreased expression of MUC4
  - d. Bacteria within goblet cells
- 13. Caterpillar setae have NOT been found where in mares with equine amnionitis and fetal loss syndrome?
  - a. Liver
  - b. Spleen

- c. Large colon
- d. Glandular stomach
- 14. In cattle with bovine spongiform encephalopathy, the brain nuclei with the most conspicuous neuronal vacuolation are the:
  - a. Red nuclei
  - b. Vestibular nuclei
  - c. Inferior olivary nuclei
  - d. Caudal brainstem nuclei
- 15. In goats, the joint most commonly and severely affected in small ruminant lentivirus-induced arthritis is the:
  - a. Carpus
  - b. Coxofemoral
  - c. Atlantooccipital
  - d. Tarsometatarsus
- 16. In the Friesian horse, aortic rupture occurs in/near the:
  - a. Aortic arch
  - b. Sinuses of Valsalva
  - c. Ligamentum arteriosum
  - d. Junction of cranial mesenteric artery
- 17. Which of the following is caused by *Tunga penetrans* in cattle?
  - a. Proliferative and ulcerative dermatitis
  - b. Membranous glomerulonephritis
  - c. Vegetative valvular endocarditis
  - d. Portal hepatocellular necrosis
- 18. Which of the following is NOT expressed in either epithelial or mesenchymal proliferations in ovine pulmonary adenocarcinoma caused by jaagsiekta sheep retrovirus?
  - a. p63
  - b. CD117
  - c. Desmin
  - d. Cytokeratin 14
- 19. Which of the following is a lesion found in quassinoid toxicosis in horses?
  - a. Lenticular sclerosis
  - b. Fibrous osteodystrophy
  - c. Adrenocortical necrosis
  - d. Vessiculobullous dermatitis

- 20. Which of the following is a lesion found in pigs with ryanodine receptor defect?
  - a. Skeletal muscle necrosis
  - b. Gastric ulceration
  - c. Megaesophagus
  - d. Hepatic lipidosis
- 21. Which of the following is NOT found in freemartinism in cattle?
  - a. Hypoplastic uterus
  - b. Clitoral enlargement
  - c. Vestigial seminal vesicles
  - d. Communication between vagina and uterus
- 22. White snake root (*Eupatorium rugosum*) toxicity in goats causes:
  - a. Cerebral edema
  - b. Glomerulonephritis
  - c. Myocardial necrosis
  - d. Centrilobular hepatic necrosis
- 23. Which of the following is not upregulated in sheep infected with Anaplasma phagocytophilum?
  - a. BCL2
  - b. BIRC3
  - c. CFLAR
  - d. TNF- $\alpha$
- 24. Which of the following is most likely to present as multiple cutaneous lesions in horses?
  - a. Cutaneous T-cell lymphoma
  - b. Diffuse large B-cell lymphoma
  - c. Anaplastic large T-cell lymphoma
  - d. T-cell rich, large B-cell lymphoma
- 25. In Arabian foals with hereditary cerebellar cortical abiotrophy, the cell population most affected
  - is:
- a. Granule cells
- b. Purkinje cells
- c. Bergmann glia
- d. Cerebellar nuclei neurons

## 2015 Miniboard Exam Large Animal Key

- 1. D VetPath 2014;51(3):626
- 2. D VetPath 2015;52(1):87
- 3. C VetPath 24 Feb 2015 online
- 4. B VetPath 2014;51(5):979
- 5. B VetPath 26 Nov 2014 online
- 6. B VetPath 03 Feb 2015 online
- 7. C JKP Vol.1:314
- 8. A VetPath 2014;51(2):402
- 9. B VetPath 2014;51(2):467
- 10. C VetPath 2014;51(6):1070
- 11. D VetPath 17 Sep 2014 online
- 12. B VetPath 2014;51(6):1098
- 13. B VetPath 2014;51(6):1120
- 14. B Vandevelde, et al. Veterinary Neuropathology. 1<sup>st</sup> ed. 2012, p. 183
- 15. A VetPath 2015;52(1):133
- 16. C VetPath 2015;52(1):152
- 17. A JVDI 2015;27(1):80
- 18. B JCompPath 2014;150(2-3):138
- 19. D JKP Vol.1:620
- 20. A JKP Vol.1:230
- 21. D JKP Vol.3:437
- 22. C JKP Vol.3:33
- 23. D JCompPath 2014;150(4):354
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