## AFIP MINIBOARD EXAMINATION MAY 2007

## LARGE ANIMAL PATHOLOGY

1.	Hepatocytic megalocytosis, hepatic fibrosis, biliary proliferation, and nodular regeneration are features of:		
	A.	Chroni	ic hypoxia
	B.	Sporid	esmin toxicity
	C.	Microc	eystin LR toxicity
	D.	Pyrroli	zidine alkaloid toxicity
	E.	East C	oast Fever ( <i>Theileria parva</i> )
2.	Which	of the f	following systems are principally affected by <i>Adonis</i> sp. toxicosis in the horse?
		1.	Lymphatic
		2.	Cardiovascular
		3.	Integumentary
		4.	Musculoskeletal
		5.	Gastrointestinal
	A.	1	
	B.	1, 2	
	C.	2, 3, 4	
	D.	2, 4, 5	
	E.	2, 5	

3.	All of	All of the following are true regarding papillomatous digital dermatitis in cattle EXCEPT:			
	A.	Contagious			
	B.	Caused by spirochetes			
	C.	Caused by Treponema sp.			
	D.	Also known as hairy heel warts			
	E.	Caused by Bacteroides melaninogenicus			
4.	Transp	lacental infection of pig fetuses with porcine reproductive and respiratory virus causes:			
	A.	Arthrogryposis			
	B.	Hydranencephaly			
	C.	Umbilical cord hemorrhage			
	D.	Hepatic necrosis with intranuclear inclusions			
	E.	Death of fetuses at different stages of gestation			
_	E' 1'	· l · · · · · · · l l · HEVCEDE			
5.	Findings in bovine freemartins include all EXCEPT:				
	A.	Seminal vesicles			
	B.	Ovarian Sertoli cells			
	C.	Hyperplasia of the vulva			
	D.	Hyperplasia of the clitoris			
	E.	Lack of communication between paramesonephric structures and vagina			

	A.	Zearalenone in sows		
	B.	Cystic follicles in cows		
	C.	Hypopituitarism in mares		
	D.	Granulosa cell tumors in cows		
	E.	Trifolium subterraneum in ewes		
7.	All of	the following are common age-related changes in the brains of horses EXCEPT:		
	A.	Spheroids		
	B.	Calcium deposits		
	C.	Neuropil vacuolation		
	D.	Perivascular hemosiderin		
	E.	A&C		
8.	Regarding Malignant Edema in horses, all of the following are true EXCEPT:			
	A.	Caused most commonly by Clostridium septicum		
	B.	Virtually always secondary to a penetrating wound		
	C.	Affected muscles and fascia are swollen, hemorrhagic and edematous		
	D.	Vasculitis is characteristic of the disease		
	E.	There is suppurative inflammation and necrosis of affected muscles		

Causes of endometrial hyperplasia include all EXCEPT:

6.

9.	The hi	stologic renal lesion caused by Actinobacillus equuli infection in foals is:	
	A.	Acute neutrophilic tubulitis	
	B.	Tubulointerstitial nephritis	
	C.	Suppurative glomerulitis	
	D.	Acute tubular necrosis	
	E.	Necrotizing vasculitis	
10.	Cattle	can develop acute tubular necrosis following ingestion of all of the following EXCEPT:	
	A.	Quercus sp.	
	B.	Ochratoxin A	
	C.	Amaranthus retroflexus	
	D.	Halogeton	
	E.	Rumex	
11.	Colonic agangliosis (lethal white foal syndrome) in horses results from mutations in which receptor:		
	A.	Endothelin-B	
	B.	Platelet-derived growth factor (PDGF)	
	C.	Glial-derived neurotrophic factor (GDNF)	
	D.	Epidermal growth factor (EGF)	
	E.	Endothelin-3	

12.	Congestion of gray matter throughout the brain in cattle is a striking feature of infection with:			
	A.	Babesia bovis		
	B.	Trypansoma cruzi		
	C.	Mycoplasma wenyonii		
	D.	Anaplasma marginale		
	E.	Histophilus somni		
13.	The most sensitive and specific diagnostic indicator for equine polysaccharide storage myopathy is:			
	A.	Myocyte atrophy		
	B.	Amylase-sensitive glycogen		
	C.	Subsarcolemmal vacuolation		
	D.	PAS-positive intracytoplasmic inclusions		
	E.	Amylase-resistant abnormal polysaccharide		
14.	The key microscopic lesion of atrophic rhinitis in pigs is:			
	A.	Hyperplastic nasal epithelium		
	B.	Osteopenia of the conchae		
	C.	Lymphoplasmacytic infiltrates in the lamina propria		
	D.	Mucopurulent exudate on the surface of the conchae		
	E.	Metaplasia of the nasal epithelium		

15.	In calves, fibrinous cholecystitis is pathognomonic for:		
	A.	Leptospirosis	
	B.	Tyzzer's disease	
	C.	Clostridium septicum	
	D.	Acute enteric salmonellosis	
	E.	Clostridium perfringens type A	
16.		rses, gastrointestinal epithelial sloughing, hemorrhagic ulcers of the urinary bladder, and ardial necrosis are lesions of:	
	A.	NSAID toxicity	
	B.	Cantharadin toxicity	
	C.	Potomac horse fever	
	D.	Monensin toxocosis	
	E.	Rhodococcus equi infection	
17.	Comr	non causes of scrotal dermatitis in the bull include:	
	A.	Treponema sp.	
	B.	Besnoitia besnoiti	
	C.	Trichophyton verrucosum	
	D.	Dermatophilus congolensis	
	E.	B&D	

18.	Equine keratomycosis is most commonly caused by:				
	A.	Mucor spp.			
	B.	Aspergillus spp.			
	C.	Histoplasma capsulatum			
	D.	Blastomyces dermatitidis			
	E.	B&D			
19.	Amn	Amnionitis without placentitis in cows is most indicative of infection with:			
	<i>A</i> .	Escherichia coli			
	В.	Ureaplasma diversum			
	<i>C</i> .	Chlamydophila abortus			
	D.	Listeria monocytogenes			
	E.	Campylobacter fetus ssp. fetus			
20.	A goat with testes, an XY chromosomal make-up, a vulva and no penis is termed a:				
	A. (	A. Chimera			
	B. True hermaphrodite				
	C. Lateral hermaphrodite				
	D. N	Male pseudohermaphrodite			
	E. F	E. Female pseudohermaphrodite			

21.	All of the following regarding nutritional secondary hyperparathyroidism in the horse are true
	EXCEPT:

- A. Often caused by low-calcium, high phosphorus diets
- B. Gross lesions include bilateral thickening of the maxilla
- C. Primary lesions occur at the growth plate
- D. Microscopically there is bone resorption and replacement with fibrous tissue
- E. Bone resorption is stimulated by increased production of PTH

- 22. All of the following lesions are associated with *Erysipelothrix rhuseiopathiae* infection pigs EXCEPT:
  - A. Vegatative valvular endocarditis
  - B. Suppurative synovitis
  - C. Discospondylitis
  - D. Cutaneous infarcts
  - E. Embolic nephritis

## 23. Neoplasia in cattle associated with ingestion of bracken fern include:

- 1. Transitional cell carcinoma
- 2. Squamous cell carcinoma
- 3. Papilloma
- 4. Hemangiosarcoma
- 5. Fibrosarcoma
- A. 1
- B. 1, 2
- C. 1, 2, 3
- D. 1, 2, 3, 4
- E. 1, 2, 3, 4, 5

## 24. Inherited hemochromatosis of Salers cattle affects primarily:

- 1. Bones
- 2. Liver
- 3. Heart
- 4. Kidneys
- 5. Skin
- A. 1
- B. 1, 2
- C. 1, 2, 3
- D. 1, 2, 3, 4
- E. 1, 2, 3, 4, 5

- 25. Disease due to infection with which of the following agent(s) is more severe when combined with a dual porcine circovirus 2 infection?
  - 1. Mycoplasma hyopneumoniae
  - 2. Porcine reproductive and respiratory syndrome virus
  - 3. Porcine parvovirus
  - 4. Pasteurella multocida
  - 5. Trichuris suis
  - A. 1
  - B. 1, 2
  - C. 1, 2, 3
  - D. 1, 2, 3, 4
  - E. 1, 2, 3, 4, 5