Fall 2017 Lecture Exam #1 Version A **Flowers** Name:_____KEY____ VMP 930 -- Lecture Exam #1 (100 points total) Protozoa (67 points) Matching (1 point each) Matching I Trypanosoma cruzi and Leishmania infantum are 2 uncommon, "imported" hemoflagellates that can cause systemic pathology in dogs. Match each of these hemoflagellates with the appropriate association. (1 point each) ___B___ 1. Mediterranean A. Trypanosoma cruzi ____A____ 2. Cardiac Disease B. Leishmania infantum B 3. Foxhounds ____A___ 4. Stercorarian transmission ___B___ 5. Sandflies Matching II Eimeria bovis and Cryptosporidium parvum cause diarrhea in cattle. Match each of these intestinal apicomplexans with the appropriate association. (1 point each) B____ 1. Infects microvilli of epithelial cells A. Eimeria bovis ____A___ 2. High Host Specificity B. Cryptosporidium parvum ___C___ 3. Dehydration C. Both

___B__ 4. Watery diarrhea @ 7-14 days

____A___ 5. Destruction of epithelial cells and gut lining

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Matching III

		as foetus and <i>Giardia sp.</i> can cause d agellates with the appropriate associa	
B	1.	Infective cyst	A. Tritrichomonas foetus feline
A	2.	Rodinazole	B. Giardia sp. Assemb. F
B	3.	Small Intestine	C. Both
A	4.	Cat remains bright and alert	
c	5.	Persistent smelly diarrhea	
•	pp.	and Cystoisospora spp. are coccidians th each of these coccidians with the	
A	1.	Four sporocysts	A. Eimeria spp.
c	2.	Ingest infective oocyst	B. Cystoisospora spp.
B	3.	Kitten	C. Both
B	4.	Ingest infected paratenic host	

___C___ 5. Very High Host Specificity

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Matching	٧

<u>Match</u>	ung	<u>v</u>			
Tritrio	chon	_ 10na	s foetus bovine and Neos	spora can	inum are protozoans that cause
				•	zoa with the appropriate association.
(1 poi				μ	то при
(- ps		,			
В		1	Late term abortions		A. <i>Tritichomonas foetus</i> bovine
					v. v. verenemenas yeeras sevine
A		2	Prepuce washings		B. <i>Neospora caninum</i>
			ge		o
В		3.	Apicomplexan		
			• •		
A_		4.	Sanitary artificial insen	nination	
			•		
B_		5 .	Ingest oocysts from car	nid feces	
<u>Multi</u>	<u>iple</u>	Ch	<u>ioice (2 points each</u>	<u>າ)</u>	
1. T	he s	yst	emic / abortion apicomple	exan,	, can be
	tran	smit	ted from female dog to	puppies v	ia transplacental transmission and
					in puppies. [Circle the correct answer]
	(2 p			•	
	` '		•		
	A.	Sai	rcocystis neurona	B.	Toxoplasma gondii
		<i>a</i>			
	C.	Cys	toisospora canis	D.	Neospora caninum
	E.	Sai	rcocystis cruzi		
2 R	erni	150 .	Tmidocarb is used for the	e treatme	ent <i>Babesia canis</i> , while a combo of
					abesia gibsoni; it is best to distinguish
		•	•		I <i>Babesia gibsoni</i> . Which is the best,
					•
				between '	the <i>Babesia</i> species? [Circle the
(corr	ест	answer] (2 points)		
	A	PCF	.	D	Sanalagy
	М.	rui		D.	Serology
	C.	Fed	cal Centrifugation	D.	Blood Smear
	F	CB(C & Chemistry Panel		
	-				

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A .	Sarcocystis neurona	В.	Toxoplasma gondii
C.	Spirometra mansonoides	D.	Neospora caninum
E.	Sarcocystis cruzi		
•	ydration, and weight loss. \	Within the	occidian of piglets; causing scours, "piglet herd", this coccidian manif :le the correct answer] (2 points)
A.	High Morbidity and Low M	ortality	
В.	Low Morbidity and High M	ortality	
Whic	h protozoan parasite shows	high host	specificity for its feline definitive
host	•	city for pa	specificity for its feline definitive ratenic host, allowing it to infect answer] (2 points)
host war	t; but very low host specific	city for pa he correct	ratenic host, allowing it to infect
host war A.	t; but very low host specific m-blooded animal? [Circle t	city for pa he correct	ratenic host, allowing it to infect answer] (2 points)
host ward A.	t; but very low host specific m-blooded animal? [Circle t Toxoplasma gondii	city for pa he correct	ratenic host, allowing it to infect answer] (2 points) Eimeria tenella
host ward A. C. E.	r; but very low host specific m-blooded animal? [Circle t Toxoplasma gondii Cystoisospora felis Sarcocystis cruzi es infected with this coccio	city for pa he correct B. D.	ratenic host, allowing it to infect answer] (2 points) Eimeria tenella Neospora caninum te may break with diarrhea due to al shelter or after a plane trip or
host ward A. C. E.	r; but very low host specific m-blooded animal? [Circle to a to	city for particle correct B. D. dian parasitin an animathe correct	ratenic host, allowing it to infect answer] (2 points) Eimeria tenella Neospora caninum te may break with diarrhea due to al shelter or after a plane trip or
host ward A. C. E. Puppi stre other	r; but very low host specific m-blooded animal? [Circle to a to	city for particle correct dian parasitin an animathe correct	ratenic host, allowing it to infect answer] (2 points) Eimeria tenella Neospora caninum te may break with diarrhea due to al shelter or after a plane trip or answer] (2 points)

- 7. Which feline protozoan causes a disease that is seasonal (spring & summer), with clinical signs of febrile disease, dyspnea, jaundice, and lab diagnostics showing pancyotpenia, hyperbilirubinemia and schizont-laden macrophages on blood smear? [Circle the correct answer] (2 points)
 - A. Toxoplasma gondii
- B. Cytauxzoon felis

- C. Babesia gibsoni D. Cystoisopora rivolta
- E. Tritrichomonas foetus feline
- 8. Which 2 apicomplexans are of serious zoonotic concern, especially for immunocompromised people? [Circle the correct answer] (2 points)
 - A. Sarcocystis neurona & Sarcocystis cruzi
 - B. Eimeria zuernii & Cystoisopora rivolta
 - C. Neospora caninum & Tritichomonas foetus
 - D. Cystoisopora ohioensis & Babesia gibsoni
 - E. Toxoplasma gondii & Cryptosporidium parvum
- 9. Toxoplasma gondii is a serious zoonotic disease for pregnant women, with the potential for causing fetal defects. Which of the following presents the greatest risk for congenital toxoplasmosis in the human fetus? [Circle the correct answer] (2 points)
 - A. A mother whose primary infection occurs early in pregnancy.
 - B. A mother who is seropositive before pregnancy.
 - C. An old indoor cat.

10. What is the prognosis for an untreated cat infected with Cytauxzoon felis?

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	[Cir	cle the correct answer]	(2 points)
	Α.	Acute but mild febrile	illness, recovery within 5 days.
	В.	Chronic disease that m	nay cause cardiac failure years after infection.
	C .	Acute febrile disease,	with death 5 days after clinical signs.
11.	Ame	erican Pit Bull Terrier w	arasite should you consider if presented with an with lethargy, pale mucous membranes, fever, the correct answer] (2 points)
	A .	Babesia gibsoni	B. Leishmania infantum
	C.	Cytauxzoon felis	D. Neospora caninum
	E.	Babesia canis	
		the-Blank (2 points o being highly toxic to	s each) these animals, Ionophore Coccidiostats, such as
Mone	ensin	and Lasalocid, should be	e strictly kept away fromHORSES (2
point	rs)		
			by for calves with scours caused by <i>Cryptosporidium</i> bovis isFLUID THERAPY (2 points)

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Lists (2 points each)

<u>List I</u> 1. Coccidiosis in production animals, like cattle, can cause severe diarrhea, list 4 management tactics required for the control of coccidiosis. (2 points each)			
1.	SANITATION alsodon't mix age groups		
2.	COCCIDISTATS alsoisolate at 1 st sign of DZ		
3.	GOOD NUTIRTION also _treat whole herd at 1st sign of DZ_		
4.	LOW STRESS		
1. pot	st II Toxoplasma gondii is a serious zoonotic disease for pregnant women, with the tential for causing fetal defects. List 4 important things to advise a pregnant male to do if she is concerned about becoming infected with Toxoplasma gondii. (2 ints each)		
1.	KNOW IMMUNE STATUS alsoknow cat's immune status		
2.	NO LITTER BOX DUTY		
3.	NO RAW MEAT		

4. _____SANITARY KITCHEN_____

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Trematodes & Cestodes (33 points total)

1.	,	sed by <i>Dicrocoelium dendriticum</i> infections are [Circle the correct answer] (2 points)
	A. lambs	B. older sheep
2.	bacterium <i>Neorickettsia helminth</i>	, can be a carrier of the hoeca, which in turn can cause a severe disease ds. [Circle the correct answer] (2 points)
	A. Paragonimus kellicotti	B. Platynosomum fastosum
	C. Nanophyetus salmincola	D. Heterobilharzia americana
	E. Spirometra sp.	
3.	Control measures for Fasciola hep (2 points)	patica may include: [Circle the correct answer]
	A. Elimination of ants and terres	strial snails
	B. Elimination of aquatic snails a	nd wet areas in the pasture
	C. Prevent human defecation in p	pastures & human ingestion of raw meat
	D. Prevent access of canids into	the pasture and prevent canid access to offal
4.	other wildlife, but can also infec	d in the mesenteric vessels of raccoons and to the tracterized to the correct ss and eventual death. [Circle the correct
	A. Heterobilharzia americana	B. Nanophyetus salmincola
	C. Dicrocoelium dendriticum	D. Paragonimus kellicotti
	E. Platynosomum fastosum	

- 5. Which one of the following groups do ALL the flatworms (flukes and/or tapeworms) listed result in economic loss to a cattle farmer because of condemnation of cattle meat and/or liver? [Circle the correct answer] (2 points)
 - A. Echinococcus granulosus, Moniezia sp., Taenia pisiformis
 - B. Fasciola hepatica, Taenia saginata, Fascioloides magna
 - C. Moniezia sp., Dipylidium caninum, Fascioloides magna
 - D. Taenia solium, Taenia taeniaformis, Taenia pisiformis
 - E. Dicrocoelium dendriticum, Taenia pisiformis, Spirometra sp.
- 6. Which one of the following canine tapeworms does NOT shed its proglottids in the host's feces? The lack of segments in the feces requires the veterinarian to utilize fecal sedimentation to diagnose this tapeworm infection. [Circle the correct answer] (2 points)
 - A. Taenia pisiformis

B. Mesocestoides corti

- C. Dipylidium caninum
- D. Taenia taeniaeformis

E. Spirometra sp.

True / False

- 1. Anoplocephala perfoliata is very easily and often diagnosed using the simple, passive fecal floatation technique. Circle the correct answer. (2 points)
 - A. True

B. False

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Matching (1 point each)

Matching I

Many digenetic trematodes utilize a second intermediate host or an environmental substrate to infect the definitive host. Knowledge of these 2nd intermediate hosts assists the veterinarian in planning means for controlling fluke infections. Match each listed fluke with the appropriate 2nd intermediate host or environmental substrate with which the fluke utilizes. (1 point each)

c	1. Fasciola hepatica	A. Ants
B	2. Nanophyetus salmincola	B. Fish
A	3. Dicrocoelium dendriticum	C. Aquatic Vegetation
E	4. Heterobilharzia americana	D. Grasshopper
D	5. Eurytrema procyonis	E. This fluke does not use a 2 nd intermediate host
Matching II All tapeworms utilize at least one intermediate host to infect the definitive host. Knowledge of these intermediate hosts assists the veterinarian in planning means for controlling tapeworm infections. Match each listed tapeworm with the appropriate intermediate host with which the tapeworm utilizes. (1 point each)		
D	1. Dipylidium caninum	A. Rabbit
c	2. Moniezia sp.	B. Rodent
A	3. Taenia pisiformis	C. Pasture Mite
В	4. Taenia taeniaformis	D. Flea

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Matching III

Compare & Contrast the two helminth parasites of dogs & cats: Spirometra sp. and Paragonimus kellicotti. Some characteristics of the worms are shared, while other characteristics differ between the worms. (In front of the characteristic listed in the left-hand column, write the correct Letter that represents Spirometra sp., Paragonimus kellicotti or Both, which are listed in the right-hand column.) (1 point each).

A 1	. Lungs	A.	Paragonimus kellicotti
c 2	Sedimentation	В.	Spirometra sp.
B 3	Cestode	c .	Both
A 4	. Crayfish		
B 5	Intermittent diarrhea		

Matching IV

Humans can become infected with both adult tapeworms & important larval tapeworms. Match the tapeworm / stage with the mode of infection in which a human may acquire the tapeworm / stage. (1 point each)

B 1.	Echinococcus sp. hydatid cyst
<i>c</i> 2.	Taenia solium larvae
D 3.	Taenia saginata adult tapeworm
E 4.	Spirometra sp. larvae
A 5.	Taenia solium adult tapeworm

- A. Ingest larval tapeworm from raw pork
- B. Ingest tapeworm egg from dog feces
- C. Ingest tapeworm egg from human feces
- D. Ingest larval tapeworm from raw beef
- E. Ingest larval tapeworm in copepod