F	owers
	OWERS

Name:														

Version A

VMP 930 -- Lecture Fxam #1

	VIVII JOO BOOTUI	
	(100 points to	tal)
Matching I	Protozoa (67 po g (1 point each) na cruzi and Leishmania infantum are 2	
_	ates that can cause systemic pathology ates with the appropriate association.	_
	1. Mediterranean	A. Trypanosoma cruzi
:	2. Cardiac Disease	B. Leishmania infantum
;	3. Fo×hounds	
	4. Stercorarian transmission	
!	5. Sandflies	
	<u>I</u> vis and <i>Cryptosporidium parvum</i> cause di tinal apicomplexans with the appropriate	
	1. Infects microvilli of epithelial cells	A. Eimeria bovis
:	2. High Host specificity	B. Cryptosporidium parvum
:	3. Dehydration	C. Both
	4. Watery diarrhea @ 7-14 days	
į	5. Destruction of epithelial cells and a	ut linina

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M	atc	:hin	g III

	as foetus and <i>Giardia sp. can</i> diarrh es with the appropriate association.	
 1.	Infective cyst	A. Tritrichomonas foetus feline
 2.	Rodinazole	B. <i>Giardia sp.</i> Assemb. F
 _ 3.	Small Intestine	C. Both
 4 .	Cat remains bright and alert	
 5 .	Persistent smelly diarrhea	
spp.	<i>and Cystoisospora</i> spp. are coccidian ch each of these coccidians with the	
 1.	Four sporocysts	A. Eimeria spp
 _ 2.	Ingest infective oocyst	B. <i>Cystoisospora spp.</i>
 3 .	Kitten	C. Both
 4 .	Ingest infected paratenic host	
 5 .	Very High Host Specificity	

<u>Matching V</u>

aboı		in c	attle. Match each of these p		inum are protozoan that cause zoa with the appropriate association.			
		1.	Late term abortions		A. Tritichomonas foetus bovine			
		2.	Prepuce washings		B. Neospora caninum			
		3. Apicomplexan						
		4. Sanitary artificial insemination						
		_ 5. Ingest oocysts from canid feces						
1.	trar ofte (2 p	nsmit en co point	tted from female dog to puppi auses Flaccid Hind-limb Syndr s)	es v ome				
	A .	Sa	rcocystis neurona	В.	Toxoplasma gondii			
	C.	Cys	stoisospora canis	D.	Neospora caninum			
	E.	Sai	rcocystis cruzi					
2.	Ato beta mos	vaqu weer t re	one & Azithromycin is used fo n an infection of <i>Babesia canis</i>	r <i>Ba</i>	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, the <i>Babesia</i> species? [Circle the			
	A .	PCI	R	В.	Serology			
	C .	Fed	cal Centrifugation	D.	Blood Smear			
	E.	CB	C & Chemistry Panel					

3.		is a sys	stemic a	picomplexan that can accidentally
		ct a horse, causing neural pat kia and muscle atrophy. [Circle	•	with disease manifestations including rrect answer] (2 points)
	A.	Sarcocystis neurona	В.	Toxoplasma gondii
	C .	Spirometra mansonoides	D.	Neospora caninum
	Ε.	Sarcocystis cruzi		
4.	•	·	thin the	occidian of piglets; causing scours, "piglet herd", this coccidian manifests tle the correct answer] (2 points)
	A.	High Morbidity and Low Mor	tality	
	В.	High Mortality and Low Morb	oidity	
5.			hology;	picomplexan that can accidentally with disease manifestations including rrect answer] (2 points)
	A .	Sarcocystis neurona	В.	Toxoplasma gondii
	C .	Eimeria zuernii	D.	Neospora caninum
	E.	Sarcocystis cruzi		
6.	clini pand	cal signs of febrile disease, d	lyspnea, and schiz	nat is seasonal (spring & summer), with jaundice, and lab diagnostics showing cont-laden macrophages on blood ints)
	A.	Toxoplasma gondii	В.	Cytauxzoon felis
	C .	Babesia gibsoni	D.	Cystoisospora rivolta
	F	Tritrichomonas foetus feline		

- 7. Which 2 apicomplexans are of sereious zoonotic concern, especially for immonocompromised people? [Circle the correct answer] (2 points)
 - A. Sarcocystis neurona & Sarcocystis cruzi
 - B. Eimeria zuernii & Cystoisospora revolta
 - C. Neospora caninum & Tritichomonas foetus
 - D. Cystoisospora ohioensis & Babesia gibsoni
 - E. Toxoplasma gondii & Cryptosporidium parvum
- 8. Which protozoan parasite shows high host specificity for its feline definitive host; but very low host specificity for paratenic host, allowing it to infect any warm blooded animal? [Circle the correct answer] (2 points)

A. Toxoplasma gondii

B. Eimeria tenella

C. Cystoisospora felis

D. Neospora caninum

- E. Sarcocystis cruzi
- 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.		is the prognosis for an <u>untre</u> the correct answer] (2 poin		cat infected with Cytauxzoon felis?	,
	A. A	Acute but mild febrile illness,	recov	very within 5 days.	
	B. <i>C</i>	hronic disease that may caus	e card	diac failure years after infection.	
	C. A	cute febrile disease, with de	ath 5	days after clinical signs.	
11.	Ameri		argy,	you consider if presented with an pale mucous membranes, fever, inswer] (2 points)	
	A. <i>E</i>	Babesia gibsoni	В.	Leishmania infantum	
	C. C	ytauxzoon felis	D.	. Neospora canimun	
	E. <i>E</i>	Pabesia canis			
Fill-	-in-th	e-Blank (2 points each)	!		
1. 1	Due to 1	peing highly toxic to these an	imals,	, Ionophore Coccidostats, such as	
Mone	ensin an	d Lasalocid, should be strictly	y kept	t away from	. •
(2 p	oints)				
2. T	he prim	ary supportive therapy for co	ılves v	with scours caused by <i>Cryptosporidi</i> e	um
parv	<i>um</i> or t	he coccidian, <i>Eimeria bovis</i> is		(2 points)	

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Lists (2 points each)

	• •	_
	164	•
_	.131	_

LIST I	
1. Coccidiosis in production animals, like cattle, a management tactics required for the control of co	
1	
2	
3	
4	
List II 1. Toxoplasma gondii is a serious zoonotic disease potential for causing fetal defects. List 4 import female to do if she is concerned about becoming i points each)	tant things to advise a pregnant
1	
2	
3	
4	

<u>Flowers</u>

Trematodes & Cestodes (33 points total)

	tiple Choice I (2 points each) The effects of the pathology cause	ed by <i>Dicrocoelium dendriticum</i> infections are
		[Circle the correct answer] (2 points)
	A. lambs	B. older sheep
2.	bacterium <i>Neorickettsia helmintho</i>	
	A. Paragonimus kellicotti	B. Platynosomum fastosum
	C. Nanophyetus salmincola	D. Heterobilharzia americana
	E. <i>Spirometra sp.</i>	
3.	Control measures for Fasciola hepat (2 points)	tica may include: [Circle the correct answer]
	A. Elimination of ants and terrest	rial snails
	B. Elimination of aquatic snails and	d wet areas in the pasture
	C. Prevent human defecation in pa	stures & human ingestion of raw meat
	D. Prevent access of canids into t	he pasture and prevent canid access to offal
4.	other wildlife, but can also infect	in the mesenteric vessels of raccoons and dogs causing a severe disease, characterized and eventual death. [Circle the correct
	A. Heterobilharzia americana	B. Nanophyetus salmincola
	C. Dicrocoelium dendriticum	D. Paragonimus kellicotti
	E. <i>Platynosomum fastosum</i>	

Flowers

- 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)

	_ 1. Fasciola hepatica	A. Ants			
	_ 2. Nanophyetus salmincola	B. Fish			
	_ 3. Dicrocoelium dendriticum	C. Aquatic Vegetation			
	_ 4. Heterobilharzia americana	D. Toad or Anolis			
	_ 5. <i>Playtnosum fastosum</i>	E. This fluke does not use a 2 nd intermediate host			
Knowledg controllin	<u>II</u> vorms utilize at least one intermedia ge of these intermediate hosts assist ng tapeworm infections. Match each liate host with which the tapeworm u	s the veterinarian in planning means listed tapeworm with the appropriat	foi		
	_ 1. Dipylidium caninum	A. Rabbit			
	_ 2. <i>Moniezia sp</i> .	B. Rodent			
	_ 3. Taenia pisiformis	C. Pasture Mite			
	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).

1. Lungs	A	١.	Paragonimus kellicotti		
2. Sedimentation	В	3.	Spirometra sp.		
3. Cestode	C	: .	Both		
4. Crayfish					
5. Intermittent diarrhea					
Matching IV Humans can become infected with tapeworms. Match the tapeworm human may acquire the tapeworm	n / stage with the	mc	ode of infection in which o		
1. Echinococcus sp. h	ydatid cyst				
2. Taenia solium larvo	ae				
3. <i>Taenia saginata</i> adult tapeworm					
4. Spirometra sp. lar	vae				
5. Taenia solium adul	t tapeworm				
A. Inges	t larval tapeworm f	ro	om 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