TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES DEPARTMENT OF ENVIROMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR:

BCHALOR OF SCIENCE IN MEDICAL LABORATORT SCIENCES

AML 4209: MEDICAL HELMINTHOLGY II

END OF SEMESTER EXAMINATION

SERIES: AUGUST 2017

TIME: 2 HOURS

DATE: 25 JULY 2017

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of TWO Section(s). Attempt ALL questions.

Circle the correct answer in section A.

PAPER 1

Section A (30 Marks)

- 1. Examination of a 24-hour unpreserved urine specimen is sometimes helpful in the recovery of?
 - a). Trichomonas vaginalis trophozoites
 - b). Schistosoma haematobium eggs
 - c). Enterobius vermicularis eggs
 - (d). Strongyloides stercoralis larvae
 - e). Ascaris lubricoides
- 2. The examination of sputum and stool may be necessary to diagnose infection with:
 - a). Paragonimus westermani
 - b). Trichinella spiralis
 - c). Wuchereria bancrofti
 - d). Fasciola hepatica
 - e). Giasdia lamblia

	a). Fleas and Ticks			
	b). Protozoans			
	c). Insects			
	d). Cesodes and trematodes			
	e). Insects			
4. Eating poorly cooked pork can lead to an infection with				
	a). Taenia solium and Trichinella spiralis			
	b). Taenia saginata and Hymenolepis nana			
	c). Trichuris trichiura and Hymenolepis diminuta (d). Diphyllobothrium latum and Ascaris lumbricoides			
	e). Taenia solium and Trichiura			
	source of human infection by each of the following parasites except: (a) Taenia solium			
	b) Ascaris lumbricoides			
	c) Trichinella spiralis			
	d) Ascaris suum			
	e) Echinococcus granulosus			
6. Which	of the following parasites are diagnosed by use of xenodisgnosis?			
(a) Strongyloides stercolaris			
	(b) Schistosoma mansoni			
	c) Trichinella spiralis			
	d) Ascaris lumbricoides			
	e) Trichuris trichiura			

7. Which one of the following parasites has more than two host to complete its lifecycle

3. Anti-helminthic are used to treat what type of infection/infestation?

- a) Ascaris lumbricoides b) Enterobius vermicularis c) Trichuris trichiura d)Paragonimus westermani (e) Trichuris trichiura 8. How is the intermediate flea host of *Dipylidium caninum* infected? Hatched larvae penetrate through the adult flea exoskeleton a). Hatched larvae penetrate through the larval flea exoskeleton Hatched larvae are engested by the adult flea c). (d). Eggs still within their gravid proglottids are engested by larval fleas e). Eggs released from their gravid proglottids are engested by adult fleas 9. Which of the following is the first larval stage of trematodes? a) Schistosomulum (b) Miracidia (c) Cercariae (d) Metacercariae (e) Adult 10. The following are advantages of using formalin in preparation of stool samples except a) Easy to prepare b) Good overall fixative c)Long shelf life d) Preserves trophozoites well
- 11. The adult worm of Clonorchis sinensis is most frequently found in the following
 - a). Intrahepatic bile duct

(e) Short half life

b). Lung parenchyma

c). Urin	ary bladder submucosa
d). Lum	nen of intestine
e). Urin	ary mucosa
12. Which	parasite from the list below has been associated with the development of pernicious anemia?
a).	Diphyllobothrium latum
b).	Echinococcus granulosus
c).	Spirometra mansonoides
d).	Schistosoma haematobium
e).	Schistosoma mamsoni
13. Which	of the following is the drug of choice for treatment against Schistosoma adults
a).	Mebendazole
b).	Albendazole
c).	Arecoline hydrobromide
d).	Bunamidine hydrochloride
e).	Praziquantel
	of the following parasite species of Schistosomes that lodges in the mesenteric veins of intestines and sions of G.I.T
	a) Schistosoma metheei
	b) Shistosoma japonicum
	c) Schistosoma haematobium
	d) Schistosoma bovis
	(e) Shistosoma rhodiani
15	The pathological changes in Schistosomiasis are caused mainly by:

a). 1	immature eggs.			
b).]	Mature eggs.			
c).	Adult worm			
d).	Adult worm			
e).	Schistosomulum			
16. A paras	ite that has a wide range of hosts is described as being			
	a). Monoxenous			
	b). Euryxenous			
	c). Stenoxenous			
	d). Homoxenous			
	e). xenous			
17 Which parasite from the list below has been associated with the development of pernicious anemia?				
a). Diphyllobothrium latum				
b).	Echinococcus granulosus			
c).	Spirometra mansonoides			
d).	Schistosoma haematobium			
e).	Paragonimus westermani			
18. Name the giant intestinal fluke				
a). Fasciolopsis buski				
b). Giardia Lamblia				
c). Fasciolopsis hepatica				
d). Opisthorchis sinensis'				
e). Chronochis sinensis				
19 Which of the following requires two intermediate hosts to complete its life cycle?				
	a) T <i>aenia solium</i>			

(c) Hymenolepis nana d) Taenia saginata e) Ascaris lumbricoides 20 All of the following are hepatic flukes except? a) Faciola hepatica b) Fasiola gigantica c) Metagonimus yokogawi d) Dicrocoelium dentrticum e) Chronechis sinensis 21. All of the following are intra hepatic flukes except? a) Faciola hepatica b) Metagonimus yokogawi c) Dicrocoelium dentrticum d) Chronechis sinensis e) D. latum 22. Crab' is the intermediate host for a).Schistosoma mansoni b).Schistosoma japonicum c).clonorchis sinensis d).Paragonimus westerman e).Schistosoma haematobium 23. Undulating waves of contraction and relaxation of muscles helps trematodes in Which process a). excretion

b) Diphyllbothrium latum

b). digestion
c). reproduction
d). locomotion
a. all of Above
24. In mode of transmission for Schistosoma mansoni, penetration is in
a). Mucous
b). Intestine
c). Skin
d). Blood
e). Intestine
Which of the following is the dog tapeworm?
a) Hymenolepis nana
b) D. latum
c) Hymenoleptis dimunita
d) Enchinocucus granulosus
e) Taenia solium
26. The eggs of the following Schistosoma sp are elongate and have a prominent lateral spine are
a). S. mansoni
b). S. japonicum
c). S. haematobium
d). S. intercalatum
e) S. Chaompala
27. Snails are both the first and second intermediate hosts of the following trematodes
a). Echinostoma ilocanum
b). Fasciola hepatica ©Technical University of Mombasa Page 7 of 9

c). Par	ragonimus westermani					
d). <i>Fas</i>	d). Fasciola hepatica					
e) Clon	orchis sinensis					
28. The infective stage of the following parasite is found in crabs.						
a). Fasciola hepatica						
b). <i>Ec</i>	b). Echinostoma ilocanum					
c). Clo	c). Clonorchis sinensis					
d) Par	d) Paragonimus westermani					
e) Tae	e) Taenia saginata					
29. A freshwater snail is always a part of the life cycle in which of the following groups?						
a).b).c).d).e).	Cestodes Trematodes Filarial worms Blood flukes Intestinal nematodes					
30. A dog that	chases and eats wild rabbits is most likely	to become infected with which	ch			
cestode?						
a). Echinococc	rus granulosus					
b). Taenia saga	inata					
c). Diphyllobothrium latum						
d). Dipylidium caninum						
e). Hynolepis nana						
Section B 40 N	Marks Answer all the questions					
31. Brieflydiscuss <i>Taenia saginata</i> infection in man? (10 marks)						
32. Describe t	he lifecycle of Fasiola hepatica	(10 marks)				
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- 33. a). Describe the lifecycle of *Schisosoma mansoni*? (10 marks)
 - b) Outline the Kato Katz method in parasite quantification (10 marks)