## TECHNICAL UNIVERSITY OF MOMBASA

# FACULTY OF APPLIED AND HEALTH SCIENCES DEPARTMENT OF MEDICAL SCIENCES

### **UNIVERSITY EXAMINATION FOR:**

# BACHELOR OF SCIENCE IN MEDICAL LABARATORY SCIENCES BACHELOR OF SCIENCE IN COMMUNITY HEALTH

AML 4209 : MEDICAL HELMINTHOLOGY END OF SEMESTER EXAMINATION

**SERIES:** APRIL 2016

**TIME:** 2 HOURS

**DATE:** Pick Date May 2016

## **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.

Circle the correct answer in section A

### PAPER 2

#### Section A

- 1. Pica may be seen in heavy infection with the following
  - (a) Trichinella
  - (b) Enterobius
  - (c) Ascaris
  - (d) Hookworms
  - (e)Trichuris

©	d). Ascaris lumbricoides Technical University of Mombasa	Page <b>2</b> of <b>10</b>
	c). Gnathostoma spinigerum	
	b). D. latum	
	a). Trichuris trichiura	
5.	Which of the following parasite may produce Loeffler's syndrome to man	
	e) Ancylostoma braziliense	
	d). Trichinella	
	c). Hydatid disease	
	b). Onchocerciasis	
	a). Trichinosis	
4.	Which is the most common cause of Creeping Eruption or Cutaneous Larva Migran	ns.
	e) Enterobiasis	
	d). Ascariasis	
	c). Hydatid disease	
	b). Onchocerciasis	
	a). Trichinosis	
3.	Very high eosnophilia is associated with which of the following	
	e) Trichuris trichiura	
	d) Uncinaria stenocephala	
	c). Ancylostoma caninum	
	b). Ancylostoma brazilience	

2. Which one of the following is not a cutaneous larva migran?

a). Toxocora cati

e) Enterobius vermicularis
6 . The adult worm of <i>Clonorchis sinensis</i> is most frequently found in the following
a). Intrahepatic bile duct
b). Lung parenchyma
c). Urinary bladder submucosa
d). Lumen of intestine
e. Brain
7. The size of ova of <i>Trichuris trichiura</i> is approximately
a). 70 x 30 um
b). 60 x 40 um
c). 50 x 22 um
d) 60 x 38 um
e) 160 x 80 um
8. Which one of the following is not a cestode
a). Diphyllobothrium
b). Hymenolepsis
c). Schistosoma
d). Taenia
e) Echinococcus
9. Diphyllobothrium latum is associated with
a). Cat
b). Fish
c). Pig
d). Dog

e) Cow
10. Lateral uterine branches in gravid proglottid are counted for diagnosis of infection caused by the following
a). Diphyllobothrium latum
b). Dipylidium caninum
c). Taenia saginata
d). Hymenolepis nana
e). Taenia solium
11. Bothriocephalus anemia is associated with
a). microcytic hypochromic cells
b). Folate deficiency
c). iron deficiency anemia
d). pernicious anemia
e).Leukemia
12. The normal lifecycle of <i>Strongyloides stercolaris</i> is approximately
a). 2 years
b). 5 years
c). 12 years
d). 30 years
e,) 15 years
13. Which of the following can infect the central nervous system?
a). Taenia solium
b). Toxoplasma gondii
c). Echinococcus sp

d). Taenia saginata
e) Ascaris
14. The size of rhabditiform of <i>Strongyloides stercoralis</i> is approximately
a). 100 x 50 um
b). 250 x 20 um
c). 200 x 30 um
d). 300 x 25 um
e). 350 x 25 um
15. A dog that chases and eats wild rabbits is most likely to become infected with which
cestode?
a. Echinococcus granulosus
b. Taenia saginata
c. Diphyllobothrium latum
d. Dipylidium caninum
e. Taenia pisiformis
16. Which one of the following is not a component of lugols iodine?
a). Potassium iodide
b). Ethyl alcohol
c). Iodine crystals
d). Water
e) Solvent

a). Production of antibodies
b). Intracellular digestion
c). Extra cellular killing
d). Activation of mononuclear cells
e) Inflamatiom
8. Obstructive uropathy is associated with
a). Schistosoma haematobium
b). Schistosoma japonicum
c). Schistosoma mansoni
d). Schistosoma mekongi
e)Schistosoma intercalatum
9. Pipe-stem fibrosis of the liver in Schistosomiasis is due to what stage of the parasite?
a). Adult
b). Juvinile
c). eggs
d). Cercaria
e), Metacercaria
20. Which of the following has been associated with Schistosomes?
a). Carcinoma of urinary bladder
b). Carcinoma of liver
c). Carcinoma of small intestine
d). Carcinoma of lungs
e) Carcinoma of Brain

17. Eosinophils kills the parasite by the following

21. Adult worms of the following are found in subcutaneous nodules	
a). <i>Loa loa</i>	
b). Dracunculus medinensis	
c). Onchocerca volvulus	
d). Brugia malayi	
e). Wuchereria bancroft	
22. The eggs of the following Schistosoma sp are elongate and have a promine	ent terminal spine are
a). S. mansoni	
b). S. japonicum	
c). S. haematobium	
d). S. intercalatum	
e) S. Chaompala	
23. Snails are both the first and second intermediate hosts of the following tre	matodes
a). Echinostoma ilocanum	
b). Fasciola hepatica	
c). Paragonimus westermani	
d). Fasciola hepatica	
e) Clonorchis sinensis	
24. The infective stage of the following parasite is found in crabs or crayfishes	s.
a). Fasciola hepatica	
b). Echinostoma ilocanum	
c). Clonorchis sinensis	
d). Opisthorchis felineus	
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25. Collection of blood specimen in the investigation of microfilaria depends on		
a). Time		
b). Locality		
c). Time and locality		
d). Species		
e) Parasite		
26. What parasite has an egg that is plano-convex and is readily infective after discharge?		
a). Toxocara canis		
b). Trichuris trichiura		
c). Ancylostoma duodenale		
d). Toxocara cati		
e) Enterobius vermicularis		
27. Which one of the following is diagnosed by muscle biopsy?		
a).Trichinella spiralis		
b). Ascaris lumbricoides		
c). Strongyloides stercolaris		
d). Cryptosporidium parvum		
e) Schistosoma haematobium		

e) Paragonimus westermani

28. A host that habours the asexual stage of a parasite is known		
a). Definitive host		
b). Intermediate host		
c). Reservoir host		
d). Facultative		
e) Obligate		
29. Produces Ground itch to man.		
a). Trichuris trichiura		
b). Necator americanus		
c). Enterobius vermicularis		
d). Ascaris lumbricoides		
e) Strongyloides stercoralis		
30. Which of the following drugs would be the best choice for the treatment of a <i>Schist</i> infection in man?	stosoma haematobium	
a. Albendazole		
b. Fenbendazole		
c. Eprinomectin		
d. Clorsulon		
e. Praziquantel		
Section B Answer all the questions 40 marks		
31a). Classify Ancylostoma duodenale (10 marks)		
b). Describe the effect of <i>Shistosoma haematobium</i> in man? (10 marks)		
32. a).Discuss <i>Diphyllobothrium latum</i> ? (15 marks)		

b) Describe in detail the Kato katz technique? (5 marks)	
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