

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:APRIL2016 TIME:2HOURS

DATE:Pick DateMay2016

## **Instructions to Candidates**

You should have the following for this examination -Answer Booklet, examination pass and student ID This paper consists of **TWOS**ection(s). AttemptALL questions. **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

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

## a). Toxocoracati

- b). Ancylostomabrazilience
- c). Ancylostomacaninum
- d)Uncinariastenocephala
- e) Trichuristrichiura
- 3. Very high eosnophilia is associated with which of the following
- a). Trichinosis
  - b). Onchocerciasis
  - c). Hydatid disease
  - d). Ascariasis
  - e) Enterobiasis
- 4. Which is the most common cause of Creeping Eruption or Cutaneous Larva Migrans.

## a). Trichinosis

- b). Onchocerciasis
- c). Hydatid disease
- d). Trichinella
- e) Ancylostomabraziliense

# 5. Which of the following parasite may produce Loeffler's syndrome to man

- a). Trichuristrichiura
  - b). D. latum
  - c). Gnathostomaspinigerum
  - d). Ascarislumbricoides
- ©Technical University of Mombasa

- 6. The adult worm of *Clonorchissinensis* 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 Trichuristrichiurais 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. Diphyllobothriumlatum is associated with
- a). Cat
  - b). Fish
  - c). Pig
  - d). Dog
- ©Technical University of Mombasa

10.Lateral uterine branches in gravid proglottid are counted for diagnosis of infection caused by the following

- a). Diphyllobothriumlatum
  - b). *Dipylidiumcaninum*
  - c). Taeniasaginata
  - d). Hymenolepis nana
- e). Taeniasolium
- 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 Strongyloidesstercolaris 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). Taeniasolium
  - b). Toxoplasma gondii
  - c). Echinococcussp
- ©Technical University of Mombasa

### d). Taeniasaginata

#### e) Ascaris

## 14. The size of rhabditiform of Strongyloidesstercoralis 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. Echinococcusgranulosus
- b. Taeniasaginata
- c. Diphyllobothriumlatum
- d. Dipylidiumcaninum
- e. Taeniapisiformis
- 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

- 17. Eosinophils kills the parasite by the following
- a). Production of antibodies
  - b). Intracellular digestion
  - c). Extra cellular killing
  - d). Activation of mononuclear cells
  - e) Inflamatiom
- 18. Obstructive uropathy is associated with
- a). Schistosoma haematobium
  - b). Schistosoma japonicum
  - c). Schistosoma mansoni
  - d). Schistosoma mekongi
- e)Schistosoma intercalatum
- 19. 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

- 21. Adult worms of the following are found in subcutaneous nodules
- a). *Loa loa* 
  - b). Dracunculusmedinensis
  - c). Onch*ocerca volvulus*
  - d). Brugiamalayi
  - e). Wuchereriabancroft
- 22. The eggs of the following Schistosoma sp are elongate and have a prominent 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 trematodes

## a). Echinostomailocanum

- b). Fasciola hepatica
- c). Paragonimuswestermani
- d). Fasciola hepatica
- e)Clonorchissinensis
- 24. The infective stage of the following parasite is found in crabs or crayfishes.
- a). Fasciola hepatica
  - b). Echinostomailocanum
  - c). Clonorchissinensis
- d). Opisthorchis felineus
- ©Technical University of Mombasa

- 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). Toxocaracanis
  - b). *Trichuristrichiura*
  - c). Ancylostomaduodenale
  - d). Toxocaracati
  - e)Enterobiusvermicularis
- 27. Which one of the following is diagnosed by muscle biopsy?
- a). Trichinella spiralis
  - b). Ascarislumbricoides
  - c). *Strongyloidesstercolaris*
  - d). Cryptosporidium parvum
- e) Schistosomahaematobium

- 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). Trichuristrichiura
  - b).Necatoramericanus
  - c). Enterobiusvermicularis
  - d). Ascarislumbricoides
- e)Strongyloidesstercoralis

30. Which of the following drugs would be the best choice for the treatment of a *Schistosoma haematobium*infection in man?

- a. Albendazole
- b. Fenbendazole
- c. Eprinomectin
- d. Clorsulon
- e. Praziquantel

## Section B Answer all the questions 40 marks

- 31a). Classify Ancylostomaduodenale(10 marks)
- b). Describe the effect of *Shistosomahaematobium*in man? (10 marks)
- 32. a).Discuss *Diphyllobothriumlatum*? (15 marks)
- ©Technical University of Mombasa

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