



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

(MAIN CAMPUS)

UNIVERSITY EXAMINATIONS (MAIN PAPER) 2021/2022 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES

COURSE CODE:

BML 321

COURSE TITLE:

MEDICAL HELMINTHOLOGY

DATE: 20/04/2022

TIME: 8.00 -10.00 am

INSTRUCTIONS TO CANDIDATES

This paper is divided into three sections, **A, B** and **C,** carrying respectively: Multiple Choice Questions (**MCQs**), Short Answer Questions (**SAQs**) and Long Answer Questions (**LAQs**). **Answer all questions**. **DO NOT WRITE ON THE QUESTION PAPER**.

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

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	10N A: Multiple Choice Questions (MCQs – 20 Marks)
1.	The common name for <i>Trichuris trichiura</i> is
	A. Hookworm
	B. Threadworm
	C. Whipworm
	D. Seat worm
2.	This nematode is an important cause of anemia in developing countries.
	A. Trichuris trichiura
	B. Trichinella spiralis
	C. Ancylostoma duodenale
	D. Enterobius vermiculis
3.	The larval stage found in <i>Hymenolepis</i> species is
	A. Cercocystis
	B. Cysticercus
	C. Hydatid D. Coenorus
4.	The drug commonly used for the treatment of filarial worms is
	A. Antimony potassium tartrate
	B. Praziquantel
	C. Hetrazan
	D. Piperazine
5.	The method most often used in the diagnosis of the ancylostomiasis is
	A. Direct fecal smear
	B. Formol-Ether concentration technique
	C. Saturated Brine floatation technique
_	D. Hatching-sedimentation technique
6.	Diphyllobothrium latum plerocercoid head is known as
	A. Rostellum
	B. Procercoid C. Cercomer
	D. Scolex
	The infective stage of Hookworms is
	A. Ova containing the 4 blastomeres
	B. Rhabditiform larva
	C. Filariform larva
	D. Egg in the 4-cell stage of cleavage
8.	Mf. bancrofti and Mf. malayi can be differentiated by
	A. Length, appearance and terminal nuclei
	B. Length, body nuclei and cephalic space
	C. Terminal nuclei, cephalic space and length
0	D. Body nuclei, terminal nuclei and cephalic space The main method for the diagnosis of filarial worms is
4	the main method for the diagnosis of illarial Worms is

A. Thin blood film technique
B. Intradermal test
C. Lymph node biopsy
D. Thick blood film technique
10. Ability of a pathogen to invade and establish in an organism is
A. Infestation
B. Disease
C. Infection
D. Pathology
11. These platyhelminths are monoecius.
A. Liver flukes
B. Lung flukes
C. Blood flukes
D. Intestinal flukes
12. The main cause of Schistosomiasis pathology are
A. Developing eggs in circulation
B. Cercariae penetrating the skin
C. Mature eggs
D. Schistosomules
13. Nutrition in platyhelminths is usually through
A. Mesenchymal cells
B. Complex branched tubule system
C. A metabolically active tegument
D. Bladder worm cells
14. The larval stage of <i>Echinococcus granulosus</i> is
A. Oncosphere
B. Embrophore
— C. Hydatid cyst
D. Coracidium
15. Epilepsy and mental disorder as a result of tapeworm infection is caused by
A. Hydatid cyst
B. Spargunum
C. Cysticercus cellulosae
D. Coenorous
16. The mode of infection for <i>Trichinella spiralis</i> is
A. Ingestion of eggs containing embryos/larvaeB. Ingestion of pork containing encysted larvae
C. Ingestion of beef/muscle containing encysted larvae
D. Ingestion of pork containing cysticerci
17. The method used to diagnose pork tapeworm infection is
A. Direct fecal smear
B. Saturated brine floatation method
C. Identification of gravid segments in feces
D. Hatching-sedimentation method
18. Larval multiplication stages can be found in
16. Laivai mumpheanom siages can be found in

A. Hookworm B. Pork tapeworm C. Hydatid cyst D. Filarial 19. The following nemathelminth is both somatic and intestinal. A. Ascaris lumbricoides B. Enterobius vermicularis C. Strongyloides stercoralis D. Wuchereria bancrofti 20. Mechanisms through which infectious agents cause disease is A. Active penetration B. Active reaction with the body systems C. Vascular obstruction D. Passive penetration through the body tissues. **SECTION B: Short Answer Questions (40 Marks)** 1. State the laboratory diagnosis for Dracunculus medinensis (8mks) 2. Explain the laboratory diagnosis for Mf. bancrofti (8mks) 3. Differentiate between hookworm and Strongyloides species larvae (8mks) 4. Distinguish between T. saginata and T. solium proglottids (8mks) 5. Explain urine sedimentation method for the diagnosis of S. hematobium (8mks)

SECTION C: Long Answer Questions (60 Marks)

1. Describe the Ritchie's Formol-Ether stool concentration technique.

3. Describe the six stage life cycle of *Ascaris lumbricoides*.

2. Discuss the control of Schistosomiasis as a neglected tropical disease.

(20mks)

(20mks)

(20mks)