



**KENYA MEDICAL TRAINING COLLEGE
FACULTY OF CLINICAL SCIENCES
DEPARTMENT OF CLINICAL MEDICINE**

**END OF SEMESTER EXAMINATION
FOR
MARCH 2021 CLASS – YEAR 1 SEMESTER I**

PAPER: Parasitology & Laboratory Skills I

DATE: 3rd August, 2021

TIME: 2 HOURS (2:00PM – 4:00 PM)

INSTRUCTIONS

1. This paper consists of:
 - Section 1 (20 Multiple Choice Questions)
 - Section 2 (4 Short Answer Questions)
 - Section 3 (2 Long Answer Question)
2. Attempt **ALL** Questions
3. Write your **ADMISSION NUMBER** on all the answer sheets provided and on the question paper.
4. Ensure that all examination answer scripts are handed in at the end of the examination
5. Ensure you sign in the 'sign IN and OUT' examination register provided

EXAMINATION NUMBER

Section 1 (20 Multiple Choice Questions)

1. Definitive host is one
 - a) In which sexual multiplication takes place and harbors adult form
 - b) In which asexual multiplication takes place and harbors adult form
 - c) In which sexual multiplication takes place and harbors larval form
 - d) In which asexual multiplication takes place and harbors adult form
2. Which of the following cestode does not have a rostellum and hooks?
 - a) Echinococcus granulosus
 - b) Taenia solium
 - c) Taenia saginata
 - d) Hymenolepis nana
3. Larval form of Echinococcus granulosus is seen in
 - a) Dog
 - b) Man
 - c) Wolf
 - d) Fox
4. Dwarf tapeworm refers to
 - a) Echinococcus granulosus
 - b) Loa loa
 - c) Hymenolepis nana
 - d) Schistosoma mansoni
5. Which of the following is not a cestodes
 - a) Diphyllbothrium latum
 - b) Taenia saginata
 - c) Schistosoma mansoni
 - d) Echinococcus granulosus
6. Which of the following cestodes doesn't need an intermediate host to complete the life cycle?
 - a) Hymenolepis nana
 - b) Taenia saginata
 - c) Diphyllbothrium latum
 - d) Echinococcus granulosus
7. Man is the intermediate host for
 - a) Strongyloides stercoralis
 - b) Plasmodium vivax
 - c) Entamoeba histolytica
 - d) Enterobius vermicularis
8. Which of the following parasite passes its life cycle through three hosts
 - a) Fasciola hepatica

- b) *Fasciola buski*
 - c) *Schistosoma haematobium*
 - d) *Clonorchis sinensis*
- Humans acquire *Cysticercus cellulosae* infection by all except:
- a) Not ingestion of Contaminated vegetables
 - b) Autoinfection
 - c) Reverse peristalsis
 - d) Ingestion of contaminated pig's meat
10. Which of the following cestode eggs are NOT bile stained?
- a) *Hymenolepis nana*
 - b) *Diphyllobothrium latum*
 - c) *Echinococcus granulosus*
 - d) *Taenia solium*
11. Which parasite enters, the body by piercing the skin
- a) *Trichuris trichiura*
 - b) *Ascaris*
 - c) *Necator americanus*
 - d) *Plasmodium*
12. Autoinfection is seen in all except
- a) *Hymenolepis nana*
 - b) *Enterobius vermicularis*
 - c) *Taenia solium*
 - d) *Ascaris lumbricoides*
13. The following is true about *Cysticercus bovis*
- a) It is the larval form of *T. saginala*.
 - b) The larva (*Cysticercus bovis*) is infective stage for humans.
 - c) It is the larval form of *T. solium*
 - d) *Cysticercus bovis* is unknown in humans.
14. Second intermediate host of *Diphyllobothrium latum* is
- a) Cyclops
 - b) Man
 - c) Snail
 - d) Fresh water fish
15. Which of the following flukes is carcinogenic
- a) *Fasciola*
 - b) *Clonorchis*
 - c) *Paragonimus*
 - d) *Gastrodiscoides*
16. All of the following lead to bloody diarrhea except
- a) *Schistosoma japonicum*

- b) *Entamoeba histolytica*
 - c) *Schistosoma mansoni*
 - d) *Schistosoma haematobium*
17. The second intermediate host of *Fasciola hepatica* is
- a) Snail
 - b) Fresh water fish
 - c) Crab
 - d) Aquatic plants
18. Largest trematode infecting humans
- a) *Fasciola hepatica*
 - b) *Fasciolopsis buski*
 - c) *Schistosoma haematobium*
 - d) *Paragonimus westermani*
19. Terminal spined eggs are seen in
- a) *Schistosoma haematobium*
 - b) *Schistosoma mansoni*
 - c) *Schistosoma japonicum*
 - d) *Clonorchis sinensis*
20. Organism causing biliary tract obstruction
- a) *Ancylostoma duodenale*
 - b) *Clonorchis sinensis*
 - c) *Strongyloides stercoralis*
 - d) *Enterobius vermicularis*

Section 2 (4 Short Answer Questions) (40 Marks)

1. Differentiate between: (10marks)
- a) Direct and indirect life cycle
 - b) Definitive host and intermediate hosts
2. Describe briefly the general characters of cestodes (10marks)
3. Differentiate between trematodes and nematodes (10marks)
4. Name the infective stage for the following parasites (10marks)
- i. *Dyphillobothrium latum*
 - ii. *Taenia solium*
 - iii. *Fasciola hepatica*
 - iv. *Ascaris lumbricoides*

v. *Schistosoma haematobium*

Section 3 (2 Long Answer Question) (40 Marks)

1. Describe the sources of transmission of various parasitic infections and the modes of transmission of the same. (20marks)
2. Briefly describe briefly the life cycle of Strongyloides (20marks)