

AMREF INTERNATIONAL UNIVERSITY SCHOOL OF MEDICAL SCIENCES

DEPARTMENT OF PHYSIOTHERAPY

BACHELOR OF SCIENCE IN PHYSIOTHERAPY

END OF JANUARY-APRIL 2023 SEMESTER EXAMINATIONS

UNIT CODE: PHT 124 UNIT NAME: MEDICAL PARASITOLOGY

DATE: Friday 14th April 2023 TIME: TWO HOURS

START: 11:15 am STOP: 1:15 pm

Instructions

- 1) This paper has three sections: Section A, Section B and Section C
- 2) Answer **ALL** questions in Section A and Section B and only one question in Section C
- 3) Use the University examination booklets provided
- 4) Re-writing the questions on your answer sheet is unnecessary
- 5) Do not write on the question paper

MULTIPLE CHOICE QUESTTIONS: SECTION A (1 MARKS EACH)

- 1. The most common form of asexual reproduction in protozoa is called as------
 - A. Binary fission
 - B. Multiple fission
 - C. Both
 - D. None
- 2. Protozoal parasites belonging to class Rhizopoda are characterized by having
- A. Cilia
- B. Flagella
- C. Cyst
- D. Rhizopoda
- 3. Amoebic dysentery in man and animals is caused by
- A. Entamoeba (E.) coli
- B. E. gingivalis C
- C. E. histolytica
- D. None
- 4. In human beings, Trypanosoma brucei caused a disease called as
- A. African Trypanosomiasis
- B. Sleeping sickness
- C. Both
- D. Nagana
- 5. Common name of Glossina species is
- A. Tsetse fly
- B. Horse fly
- C. Both
- D. None
- 6. Which of the following drugs is effective against Trichomonas vaginalis
- A. Penicillin
- B. Streptomycin
- C. Metronidazole
- D. Pentamidine
- 7. Which of the following classes of immunoglobulins is important in immunity to *T. vaginalis*?
- A. IgA
- B. IgG
- C. IgE
- D. IgM

16. The main defense against parasitic diseases is A. Vaccination B. Cleanliness C. Deworming D. Antibiotics 17. Maturation of Gastrointestinal nematodes mostly occurs in A. Ground/soil B. Vegetation C. Intermediate host D. Gastrointestinal tract 18. The larval form of <i>Taenia solium</i> is called
A. Cysticerus cellulosae B. Cysticercoid C. Cysticerus bovis D. Hydatid cyst 19. What is the intermediate host for schistosomes?
A. Soil. B Snails. C Humans. D. Raw sewage. 20 is where both organisms benefit from their association.
A Parasitism. B. Commensalism. C. Saprophytism. D Mutualism. 21. An intestinal flagellate species known as the only common pathogenic protozoan found in the duodenum and jejunum of humans is:
A. Entamoeba histolytica. B. Giardia lamblia. C. Balantidium coli. D Trichomonas vaginalis. 22. Malarial parasites reproduce in:
A Lung tissue B.Brain tissue C.Red blood cells D. Placental tissue 23. Which parasitic infection is often associated with fecally contaminated water (fecal-oral) or food? A. Cryptosporidium parvum. B. Toxoplasma gondii. CA and B above. D. Giardia lamblia.

- 24. The most environmentally resistant form of many parasites is a stage of development called the:
 - A. Cyst.
 - B. Spore.
 - C. Vegetarian.
 - D. Trophozoite.
- 25. The main host of Toxoplasma gondii is:
 - A. Pregnant women.
 - B. Cats.
 - C. Mosquitoes.
 - D. Rats.
- 26. Human sleeping sickness can be caused by:
 - A. Leishmania donovani.
 - B. Trypanosome cruzi
 - C. Leishmania tropica.
 - D. Trypanasoma brucei spp.
- 27. Which of the following worms have eggs that hatch in 48 hours to give rhabtidiform larva and molt to filariform larva after 2 days?
 - A. Enteribius vermicularis
 - B. Ancylostoa duodenale
 - C. Strongyloides stercoralis
 - D. Both B and C are correct.
- 28. The infective stage of the Hookworms is:
 - A. Eggs in feces.
 - B. Embryonated eggs when ingested.
 - C. Filariform larva penetrating the skin (usually the foot)
 - D. All of the above.
- 29. Which of the following is a whip-worm?
 - A. Trichinella spiralis
 - B. Trichuris trichiura
 - C. Necator americanus d
 - D. Strongyloides sterocoralis
- 30. Which of the following are commonly known as blood flukes?
 - A. Schistosoma species
 - B. Hymnelopsis nana
 - C. Nematodes
 - D. Cestodes

SECTION B: (20 MARKS)

Attempt ALL Questions

31. List the classes of the medically important protozoa.	[2 Marks]
32. Outline the general characteristics of nematodes.	[2½ Marks]
33. Outline three mechanisms of parasite escaping host defense	[6 marks]
34. List the medically important <i>Schistosoma</i> species.	[2½Marks]
35. Describe the pathogenesis of <i>Entamoeba histolytica</i>.36. State the <i>Leishmania</i> species and their clinical conditions.	[3 Marks] [4 Marks]

SECTION C: (20 MARKS)

Answer any ONE Questions

37. Discuss the following features of Strongyloides stercoralis:

a) Morphology	[3 Marks]	
b) Lifecycle.	[6 Marks]	
c) Pathogenicity and clinical features.	[7 Marks]	
d) Diagnosis.	[2 Marks]	
e) Treatment.	[2 Marks]	
38. Describe the etiology, life cycle, pathogenesis, laboratory diagnosis and treatment of		
toxopla <mark>smosis.</mark>	[20 Marks]	
39. a. Discuss the various reactions of a host to parasite infection.	[10 Marks]	
b. Describe the various effects of a parasite on its host	[10 mark]	