



**AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF MEDICAL SCIENCE
DEPARTMENT OF REHABILITATION MEDICINE
BACHELOR OF SCIENCE IN PHYSIOTHERAPY
END OF SEPT-DECEMBER 2024 TRIMESTER EXAMINATIONS**

UNIT CODE: PHT 124 UNIT NAME: Parasitology (Main Exam)

DATE: Tuesday/ 10th / December

TIME: TWO HOURS

START: 6pm STOP : 8pm

INSTRUCTIONS (physical exams)

- 1. Do not write on this question paper**
(Marks and questions distribution as per program curriculum.)

INSTRUCTIONS (Online examinations)

1. This exam is marked out of 70 marks
2. This Examination comprises 3 Sections
3. This online exam shall take 2 Hours
4. Late submission of the answers will not be accepted
5. Ensure your web-camera is on at all times during the examination period
6. No movement is allowed during the examination
7. Idling of your machine for 5 min or more will lead to lock out from the exam
8. The Learning Management System (LMS) has inbuilt integrity checks to detect cheating
9. Any aspect of cheating detected during and or after the exam administration will lead to nullification of your exam
10. In case you have any questions call the invigilator for this exam on Tel. 0705833434 and or the Head of Department on Tel 0720491032
11. For adverse incidences please write an email to: amiu.examinations@amref.ac.ke

SECTION I: MULTIPLE CHOICE QUESTIONS

(30 MARKS)

Attempt ALL questions

1. Blood-sucking vector may transmit _____
 - A. *Ascaris lumbricoides*
 - B. *Ancylostoma duodenale*
 - C. *Strongyloides stercoralis*
 - D. *Plasmodium spp.*
2. A 30-year-old female having habit of keeping her contact lenses in tap water. She noticed deterioration of vision and visited an ophthalmologist who diagnosed her with severe retinitis. Culture of the water as well as vitreous fluid would most likely reveal:
 - A. *Naegleria fowleri*
 - B. *Entamoeba histolytica*
 - C. *Acanthamoeba*
 - D. *Entamoeba coli*
3. Diagnosis of which of the following parasite uses Entero-test?
 - A. *Cyclospora* species
 - B. *Entamoeba histolytica*
 - C. *Giardia lamblia*
 - D. *Dientamoeba fragilis*
4. Oriental sore is caused by:
 - A. *Leishmania mexicana* complex
 - B. *Leishmania braziliensis* complex
 - C. *Leishmania tropica*
 - D. *Leishmania chagasi*
5. Which is true about *Plasmodium falciparum*?
 - A. High level of parasitemia
 - B. It invades erythrocytes of all ages
 - C. Its erythrocytic schizogony take place in the capillaries of internal organs
 - D. All of the above
6. Oocysts of *Toxoplasma gondii* are excreted in the faeces of:
 - A. Cat
 - B. Sheep
 - C. Cattle
 - D. Humans
7. The largest protozoa parasitizing human intestine?
 - A. *Trichomonas hominis*
 - B. *Balantidium coli*
 - C. *Entamoeba coli*
 - D. *Isospora belli*
8. The larval form of *Hymenolepis nana* is called:

- A. Hydatid cyst
 - B. Coenurus
 - C. Cysticercus
 - D. Cysticercoid
9. In which of the following trematode, the sexes are separate?
- A. *Schistosoma haematobium*
 - B. *Clonorchis sinensis*
 - C. *Fasciolopsis buski*
 - D. *Paragonimus westermani*
10. Chinese liver fluke is the common name of _____
- A. *Fasciola hepatica*
 - B. *Fasciola gigantica*
 - C. *Clonorchis sinensis*
 - D. *Fasciolopsis buski*
11. Visceral larva migrans is caused by:
- A. *Ancylostoma duodenale*
 - B. *Necator americanus*
 - C. *Ancylostoma caninum*
 - D. *Toxocara canis*
12. Causative agent of Calabar swelling is:
- A. *Dracunculus medinensis*
 - B. *Wuchereria bancrofti*
 - C. *Brugia malayi*
 - D. *Loa loa*
13. House fly acts as mechanical vector for transmission of all the following infections except:
- A. Amoebiasis
 - B. Typhoid and paratyphoid fever
 - C. Malaria
 - D. Cholera
14. Man is the intermediate host for
- A. *Strongyloides stercoralis*
 - B. *Plasmodium vivax*
 - C. *Entamoeba histolytica*
 - D. *Enterobius vermicularis*
15. Which parasite enters, the body by piercing the skin_____
- A. *Trichuris trichiura*
 - B. *Ascaris lumbricoides*
 - C. *Necator americanus*
 - D. *Plasmodium spp.*

16. Non-nuclear DNA present in addition to nucleus in protozoan parasite is _____
- A. Chromatid body
 - B. Karyosome
 - C. Kinetoplast
 - D. Basal body
17. Which of the following is not a flagellate
- A. *Naegleria fowleri*
 - B. *Leishmania spp.*
 - C. *Giardia lamblia*
 - D. *Dientamoeba spp.*
18. The term ameboma is used to describe
- A. Amoebic liver abscess
 - B. Skin lesion due to draining amoebic abscess
 - C. Granuloma at ileocecal junction
 - D. None of the above
19. Romana's sign occurs in
- A. Babesiosis
 - B. Leishmaniasis
 - C. Trypanosomiasis
 - D. Schistosomiasis
20. Nematodes are differentiated from other worms by the following except
- A. Absent fragmentation
 - B. Flat or fleshy leaf-like worm
 - C. Separate sexes
 - D. Cylindrical body
21. The second intermediate host of *Fasciola hepatica* is _____
- A. Snail
 - B. Fresh water fish
 - C. Crab
 - D. Aquatic plants
22. All of the following nematodes are oviparous except _____
- A. *Ascaris lumbricoides*
 - B. *Ancylostoma duodenale*
 - C. *Trichinella spiralis*
 - D. *Enterobius vermicularis*
23. The larval form of *Trichinella* can be destroyed by
- A. Smoking of meat
 - B. Deep freezing of meat
 - C. Drying of meat
 - D. Salting of meat

24. Which of the following parasite is transmitted by dog _____
- A. *Taenia saginata*
 - B. *Hymenolepis nana*
 - C. *Echinococcus granulosus*
 - D. *Diphyllobothrium latum*
25. Parasite which may be transmitted by sexual contact is _____
- A. *Trypanosoma cruzi*
 - B. *Trichomonas vaginalis*
 - C. *Trypanosoma brucei*
 - D. *Ascaris lumbricoides*
26. Infective form and invasive form of *Entamoeba histolytica* are:
- A. Trophozoite and quadrinucleated cyst
 - B. Quadrinucleated cyst and trophozoite
 - C. Both trophozoite
 - D. Both quadrinucleated cyst
27. Vector for leishmaniasis:
- A. Sandfly
 - B. Reduviid bugs
 - C. Tsetse fly
 - D. Anopheles mosquito
28. Babesiosis is transmitted by bite of:
- A. Anopheles
 - B. Sandfly
 - C. Mite
 - D. Tick
29. Which stage of the malaria parasite causes relapse?
- A. Sporozoite
 - B. Trophozoite
 - C. Merozoite
 - D. Hypnozoites
30. Humans acquire *cysticercus cellulosae* infection by all except:
- A. Ingestion of Contaminated vegetables
 - B. Autoinfection
 - C. Reverse peristalsis
 - D. Ingestion of contaminated pig' meat

SECTION II: SHORT ANSWER QUESTIONS

(20 MARKS)

Attempt ALL questions

31. [4 Marks] Differentiate between definitive host and intermediate host.
32. [4 Marks] List out general properties of nematodes
31. [4 Marks] Describe Cercarial dermatitis (swimmer's itch)
32. [4 Marks] Briefly, describe the general characteristics of cestodes.
31. [4 Marks] Explain the process of excystation and encystation of protozoa.

SECTION III: LONG ANSWER QUESTION

(20 MARKS)

Attempt ANY TWO (2) questions

[10 Marks] Describe the life cycle, pathogenesis and laboratory diagnosis of *Taenia solium*?

[10 Marks] Describe major groups of protozoa based on their locomotion mechanisms and provide an example of each

[10 Marks] Describe how amoeba causes extraintestinal infection.

*******END*******

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