



**AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF MEDICAL SCIENCES
DEPARTMENT OF NURSING & MIDWIFERY SCIENCES
BACHLEOR OF SCIENCE IN NURSING
END OF JANUARY-APRIL SEMESTER 2023 EXAMINATIONS**

**COURSE CODE AND TITLE: BSN 125 MEDICAL VIROLOGY AND PARASITOLOGY
DATE: 13TH APRIL 2023**

Duration: 2 HOURS

Start: 9:00 AM

Finish: 11:00 AM

INSTRUCTIONS

1. This exam is out of 70 marks
2. This Examination comprises THREE Sections. Section I: Multiple Choice Questions (20 marks) Section II: Short Answer Questions (30 marks) and Section III: Long Answer Questions (20 marks)
3. Answer ALL Questions.
4. Do Not write anything on the question paper -use the back of your booklet for rough work if need be.

SECTION I: MULTIPLE CHOICE QUESTIONS

1. The specimen for the diagnosis of trichomoniasis in female is:
 - A. Urine
 - B. Lymph node biopsy
 - C. Vaginal discharges
 - D. Cervical biopsy

2. The stool of the patient infected with this parasite is described as steatorrheic or gruelly
 - A. Isospora belli
 - B. Cryptosporidium hominis
 - C. Entamoeba histolytica
 - D. Giardia lamblia

3. Flask shaped ulcers in the large intestine is associated with
 - A. Giardia lamblia
 - B. Ancylostoma duodenale
 - C. Entamoeba histolytica
 - D. Trichuris trichura

4. The usual infective stage of trematodes to man is the
 - A. Cercariae
 - B. Cyst
 - C. Metacercariae
 - D. Sporozoite

5. What parasite whose migrating larvae break the pulmonary capillaries of man?
 - A. Ancylostoma braziliense
 - B. Ascaris lumbricoides
 - C. Enterobius vermicularis
 - D. Trichuris trichiura

6. The infective stage of Schistosoma to man is:
 - A. Cercariae
 - B. Embryonated egg
 - C. Metacercariae
 - D. Miracidium

7. Obstructive uropathy is associated with infection of the following parasite
 - A. Schistosoma haematobium
 - B. Schistosoma japonicum
 - C. Schistosoma mansoni
 - D. Schistosoma mekongi

8. Which one of the following parasites is associated with microcephaly?
- A. *Plasmodium falciparum*
 - B. *Toxoplasma gondii*
 - C. *Trypanosoma brucei rhodesiense*
 - D. *Leishmania donovani*
9. Perianal itching is associated with the following parasites:
- A. *Strongyloides stercoralis*
 - B. *Enterobius vermicularis*
 - C. *Trichuris trichura*
 - D. *Schistosoma mansoni*
10. This parasite can be transmitted transplacentally:
- A. *Entamoeba histolytica*
 - B. *Plasmodium falciparum*
 - C. *Loa loa*
 - D. *Echinococcus granulosus*
11. Which of these drugs is recommended for the treatment of onchocerciasis?
- A. Oxamniquine
 - B. Praziquantel
 - C. Diethylcarbamazine (DEC)
 - D. Ivermectin
12. Concerning *Loa loa*, the following statement is true?
- A. Causes blindness
 - B. Infection is found in West Africa and Central America
 - C. Diethyl carbamazine (DEC) is the drug of choice in treating the infection
 - D. Chrysops are the vectors of the parasite
13. Use of latrines for disposal of human feces is useful in prevention of transmission of the following parasites?
- A. *Onchocerca volvulus*
 - B. *Balantidium coli*
 - C. *Toxoplasma gondii*
 - D. *Echinococcus granulosus*
14. The following parasitic infection is associated with megaloblastic anaemia: -
- A. *Echinococcus granulosus*
 - B. *Taenia solium*
 - C. *Taenia saginata*
 - D. *Diphyllobothrium latum*

15. Winter bottom sign is associated with infection by the following parasite: -

- A. Leishmania donovani
- B. Wuchereria bancrofti
- C. Trypanosoma brucei gambiensei
- D. Trypanosoma cruzi

16. Retroviruses belong to which group in Baltimore virus classification system?

- A. Group 3
- B. Group 7
- C. Group 5
- D. Group 6

17. Vaccine is used in the following viral hepatitis **EXCEPT**?

- A. Hepatitis A
- B. Hepatitis B
- C. Hepatitis C
- D. Hepatitis E

18. Hepatitis C virus is classified under the following family?

- A. Picornaviridae
- B. Hepadnaviridae
- C. Flaviviridae
- D. Filoviridae

19. An example of an RNA virus

- A. Influenza A
- B. Herpes
- C. Hepatitis B
- D. Adenovirus

20. One mode of transmission of rabies

- A. Contact with cat faeces
- B. Mosquito bite
- C. Contact with dog saliva
- D. Contact with blood of an infected patient

SECTION 2: SHORT ANSWER QUESTIONS 30 MARKS

1. State five (5) different ways through which parasitic nematodes may be transmitted to humans and give a specific example of a parasite for each (5 Marks)
2. State five (5) different control and prevention strategies for the control of gastrointestinal helminth infections (5 Marks)
3. Mention five (5) complications associated with severe *Plasmodium falciparum* infection (5 Marks)
4. State clinical features due to infection with *Wuchereria bancrofti* (5 Marks)
5. Explain the different modes of transmission of viruses (5 Marks)
6. Write short notes on Hepatitis B virus (HBV) under the following sub-headings:
 - a) Transmission (1 mark)
 - b) Pathogenesis and clinical manifestation (2 marks)
 - c) HBV antibody immune response (2 marks)