

# AMREF INTERNATIONAL UNIVERSITY SCHOOL OF MEDICAL SCIENCES DEPARTMENT OF NURSING & MIDWIFERY SCIENCES END OF SEMESTER APRIL 2023 EXAMINATIONS

# COURSE CODE AND TITLE: BSN 125 PARASITOLOGY AND VIROLOGY

# DATE: 9<sup>TH</sup> AUGUST 2023

Duration: 2 HOURS

Start: 9:00 A.M.

Finish: 11:00 A.M.

### **INSTRUCTIONS**

- 1. This exam is out of 70 marks
- **2.** This Examination comprises THREE Sections. Section I: Multiple Choice Questions (25 marks) Section II: Short Answer Questions (35 marks)
- 3. Answer ALL Questions.

### **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. The parasite whose migrating larvae breaks the pulmonary capillaries of man is: -
- 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. The parasite associated with microcephaly is: -
- 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. The recommended for the treatment of onchocerciasis is: -
- A. Oxamniquine
- B. Praziquantel
- C. Diethylcarbamazine (DEC)
- D. Ivermectin
- 12. The following statement is TRUE Concerning Loa loa: -
- 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. The main clinical feature of Hepatitis A is: -

- A. Rash
- B. Limb paralysis
- C. Jaundice and abdominal discomfort
- D. Upper respiratory tract infection
- 17. The unique form that rabies virus takes is:
- A. Virus has dumbbell appearance
- B. Shaped like a bullet
- C. Star shaped
- D. Virion is pleomorphic
- 18. There is no vaccine against HIV because: -
- A. The virus is antigenically variable
- B. Such a vaccine would be too expensive
- C. The virus can be controlled by a change in sexual habits
- D. Latency can abrogate any vaccine effect
- 19. The following virus can remain latent in the host for years: -
- A. HIV
- B. Polio virus
- C. Influenza virus
- D. Herpesvirus
- 20. The current Human Papillomavirus (HPV) vaccine: -
- A. Induces a virus neutralizing antibody response
- B. Is used as a therapeutic vaccine
- C. Triggers tumour specific cell mediated response
- D. Is oncogenic risk associated
- 21. The most reliable detection test for Hepatitis E is: -
- A. ELISA test for IgG anti-HEV
- B. Polymerase chain reaction for detection of HEV RNA
- C. Western blot assay for IgM ant-HEV
- D. ELISA test for IgM anti-HEV

- 22. This is incorrect regarding Hepatitis A virus: -
- A. It causes hepatocellular carcinoma
- B. Its transmitted feco-orally
- C. It is one of the most stable viruses that infects humans
- D. It's a Picornaviridae family virus

23. Reverse transcriptase inhibitors include the following EXCEPT: -

- A. Lamivudine
- B. Tenofovir
- C. Nevirapine
- D. Dolutegravir

24. Cervical cancer is associated with the following Human Papillomavirus (HPV) genotype:

- A. HPV 1
- B. HPV 54
- C. HPV 6
- D. HPV 20

25. Clinical symptoms of measles include the following except: -

- A. Cough
- B. Runny nose
- C. Sore throat
- D. Swollen salivary glands

#### SECTION II: SHORT ANSWER QUESTIONS

- 1. State five (5) different ways through with parasitic nematodes may be transmitted to humans and give a specific example of a parasite for each (5 Marks)
- 2. Describe five (5) different control and prevention strategies for the control of gastrointestinal helminth infections (5 Marks)
- 3. State five (5) complications associated with severe Plasmodium falciparum infection
  - (5 Marks)
- 4. Describe five (5) complications associated with Ascaris lumbricoides infection (5 Marks)
- 5. Describe the steps involved in viral replication (5 Marks)
- 6. Describe 3 characteristics of viral hemorrhagic fevers and give 2 examples (5 Marks)
- 7. Discuss risk factors associated with Hepatitis B virus (HBV) infection. (5 Marks)



