



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR
FIRST YEAR END OF THIRD TRIMESTER**

**SCHOOL OF NURSING
BACHELOR OF SCIENCE IN NURSING**

**COURSE CODE: NUR 1306
COURSE TITLE: MEDICAL PARASITOLOGY**

DATE: 26TH AUGUST, 2019

TIME: 0830 – 1130 HRS

INSTRUCTIONS TO CANDIDATES

- a) Answer **ALL** Multiple questions in Section A and **All** short Essay questions in Section **B** and **ANY two** Questions in **SECTION C**

- b) Illustrate your answers with suitable diagrams and give examples wherever necessary.

SECTION A MULTIPLE CHOICE QUESTIONS (20 MARKS)

ALL QUESTIONS ARE COMPULSORY

1. Organelles of locomotion in *Balantidium coli* are:
 - (a) flagella
 - (b) pseudopodia
 - (c) cilia
 - (d) fimbria
2. Which of the following protozoa do not cause infection in patients infected with human immunodeficiency virus?
 - (a) *Cryptosporidium parvum*
 - (b) *Isospora belli*
 - (c) *Toxoplasma gondii*
 - (d) *Entamoeba coli*
3. Which of the following parasites are Intestinal flagellate ?
 - (a) *Giardia lamblia*
 - (b) *Leishmania tropica*
 - (c) *Trypanosoma brucei*
 - (d) *Trypanosoma cruzi*
4. Which of the following protozoa belongs to phylum Ciliophora?
 - (a) *Balantidium coli*
 - (b) *Cryptosporidium parvum*
 - (c) *Plasmodium spp.*
 - (d) *Entamoeba histolytica*
5. Superficial intestinal ulcers do not extend beyond:
 - (a) muscularis mucosae
 - (b) submucosa
 - (c) muscular coat
 - (d) peritoneum
6. The following characteristics are seen in amoebic dysentery except
 - (a) RBCs in clumps
 - (b) Charcot- Leyden crystals
 - (c) Pyknotic bodies
 - (d) Ghost cells
7. How many pairs of Flagella are present in the trophozoite of *Giardia Lambria*?
 - (a) one pair
 - (b) Two pair
 - (c) Three pair
 - (d) Four pair
8. *Trichomonas tenax* resides in the:
 - (a) vagina
 - (b) mouth
 - (c) duodenum
 - (d) caecum

9. Trussell and Jonson's medium is employed for the cultivation of:
- Giardia Lambria*
 - Trichomonas vaginalis*
 - Chilomastix mesnili*
 - Leishmania donovani*
10. New world leishmaniasis is caused by:
- Leishmania donovani*
 - Leishmania aethiopica*
 - Leishmania tropica*
 - Leishmania braziliensis complex*
11. Kala-azar must be differentiated from the following except
- malaria
 - tuberculosis
 - histoplasmosis
 - ascariasis
12. Chaga's disease is caused by:
- Trypasoma brucei gambiense*
 - Trypasoma brucei rhodesinse*
 - Trypanosoma cruzi*
 - Trypanosoma rangeli*
13. Sandfly is the vector of:
- Leshmania donovani*
 - Plasmodium falsparum*
 - Wuchereria bancrofti*
 - Brugia malayi*
14. The infective form of the malaria parasite is the?
- Oocyst
 - Sporozoite
 - Bradyzoite
 - Tachzoite
15. *Plasmodium falciparum* is the most pathogenic of all the human plasmodium species except?
- it causes a high level of parasitaemia
 - it invades erythrocytes of all ages
 - its erythrocytes schizogony takes place in the capillaries of internal organs
 - it causes hepatic portal disease
16. In which of the following worms man can act as intermediate host?
- Taenia saginata*
 - Taenia solium*
 - Diphyllobothrium latum*
 - Hymenolepis nana*
17. Which is the longest tapeworm found in man?
- Diphyllobothrium latum*
 - Taenia saginata*

- (c) *Taenia solium*
 - (d) *Echinococcus granulosus*
18. The common name of *Hymenolepis nana* is:
- (a) the dwarf tapeworm
 - (b) the fish tapeworm
 - (c) the pork tapeworm
 - (d) the rat tapeworm
19. In which of the following parasites are dieocious (have separate sexes)?
- (a) *Schistosoma haematobium*
 - (b) *clonorchis sinensis*
 - (c) *Taenia solium*
 - (d) *Paragonimus westermani*
20. Largest nemadode parasite is:
- (a) *Askaris lumbricoides*
 - (b) *Nectar americanus*
 - (c) *Ancylostoma duodenale*
 - (d) *Dracunculus medinensis*

**SECTION B –SHORT ANSWER QUESTIONS ANSWER ALL QUESTIONS
(40 MARKS)**

1. Describe general characteristic and classification of trematodes (5 marks)
2. Describe the differences between *Ancylostoma duodenale* and *Necator americanus*
(5 marks)
3. Tabulate differences between *Entamoeba histolytica* and *Entamoeba coli* (5 marks)
4. Describe laboratory diagnosis of Kala-azar (5 marks)
5. Describe the morphological features of amoeba parasite (5 marks)
6. Explain the general classification of Nematodes on basis of habitat (5 marks)
7. Describe the general characters of cestodes (5 marks)
8. Explain the control and prevention of *L. donovani* parasites (5 marks)

SECTION C- LONG ESSAY ANSWER ANY OF THE TWO QUESTIONS (40 MARKS)

1. Discuss geographical distribution, morphology, cultivation, life cycle, pathogenicity and laboratory diagnosis of *Entamoeba histolytica* (20 marks)
2. Discuss morphology, life cycle, pathogenicity, laboratory diagnosis, prevention and control of malaria parasites (20 marks)
3. Discuss in diagrammatically the differences between *Tania saginata* and *Taenia solium* parasites (20 marks)
4. Describe the following:
 - (a) general characters of nematodes (5 marks)
 - (b) Cutaneous larva migrans (5 marks)
 - (c) *Giardia lamblia* (5 marks)
 - (d) *Askaris lumbricoides* (5marks)

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