

UNIVERSITY

UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR BACHELOR OF SCIENCE IN NURSING

NURS 227: MEDICAL PARASITOLOGY

CHUKA

STREAMS: BSC (NURS) Y2S 2 TIME: 2 HOURS

DAY/DATE: WEDNESDAY 08/04/2020 8.30 A.M – 10.30 A.M

INSTRUCTIONS

- Do not write anything on the question paper.
- Mobile phones and any other reference materials are NOT allowed in the examination room.
- The paper has three sections. Answer ALL questions in Sections I and II and ONE question in section III.
- All your answers for Section I (MCQs) should be on one page.
- Number ALL your answers and indicate the order of appearance in the space provided in the cover page of the examination answer booklet.
- Write your answers legibly and use your time wisely

SECTION 1: MULTIPLE CHOICE QUESTIONS [20 MARKS]

1. What is the infective stage of *Schistosomamansoni* in man?A] CercariaeB] Embryonated eggD] Miracidium

2. The region of growth in Cestodes is the

A] Scolex C] Proglottid B] Neck D] Strobila

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3. The most commonly affected organ in IA] liverB] lungs	Hydatid Disease is the C] kidney D] brain
4. The usual infective stage of Trematode A] Cercariae B] Egg	s to man is the C] metacercariae D] miracidium
5. The specimen for the diagnosis of <i>Trici</i> A] Prostatic secretions B] Urine	homonas vaginalis infection in female. C] Vaginal discharges D] B & C
6. <i>Taenia saginata</i> is associated with A] Cats B] Cattle	C] dogs D] pigs
7. The common infective stage of Malaria A] gametocytes B] schizonts	to man is the C] sporozoites D] merozoites
8. Malaria with the highest degree of para A] <i>Plasmodium falciparum</i> B] <i>Plasmodium malariae</i>	sitemia in man. C] <i>Plasmodium vivax</i> D] A & B
9. The Genus of the vector for Leshmania A] <i>Glossina</i> B] <i>Musca</i>	sis C] Phlebotomus D] Oncocerca
10. The eggs of <i>Paragonimus westermani</i> A] Sputum B] Stool	may be demonstrated from the C] urine D] A & B
11. Ultrasound and MRI usually help in th A] <i>Dipylidium caninum</i> B] <i>Echinococcus granulosus</i>	ne diagnosis of the infection cause by C] Hymenolepis diminuta D] Schistosoma mansoni
12. An organism that exhibits both parasit not absolutely depend on the parasitic way	tic and non-parasitic modes of living and hence does y of life
A] Fucultative Parasite B] Accidental Parasite	C] Obligate Parasite D] None of the above

Regarding *Wuchereria bancrofti* answer the following questions by stating whether the statement is *True* or *False*

13. It causes river blindness		
14. It is transmitted to human via mo	osquito	
15. Its clinical manifestations are cau	sed by microfilaria	
16. The adult stage is found in the ly	mph nodes	
17. Its infection can be diagnosed vi	a blood examination	
18. Infection with this parasite can cause extensive damage to human urogenital structures:		
A]. Schistosoma haematobium	B]. Ascaris lumbricoides	
C]. Toxoplasma gondii	D]. Naegleria fowleri	
19. Which of this parasites does not cause malabsorption syndrome:		
A]. Giardia lamblia	B]. Cryptosporidium parvum	
C]. Strongyloides stercoralis	D]. Balantidium coli	
20. Which statement is correct about	Chagas' disease:	
A]. Is caused by Trypanosoma bruce	<i>i</i> complex B]. Human acquires the disease via the bite	
of infected sandflies		
C]. It causes megasyndrome in patien	nts with prolonged illness	
D]. The most common clinical manif	Pestation is Winterbottom's sign	

SECTION II: SHORT ANSWER QUESTIONS [30 MARKS]

1.	Distinguish betw	veen an
	1.11	• .

a.	obligate parasite and a facultative parasite	[2 marks]
b.	Definitive Host and a Paratenic Host	[2 marks]
c.	Natural Host and an Accidental Host	[2 marks]

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- Briefly describe three direct effects of a Parasite on the Host
 Explain each of the following using the parasite host relationship concept
 [8 marks]
- (a)Infection
- (b) Carrier state.
- (c) Disease state.
- (d) Parasite destruction.
- 4. Briefly explain any *Six* preventive measures designed to break the transmission cycle that are crucial to successful parasitic eradication. (6 Marks)
- 5. What are the adaptive features of arthropod vectors that make their eradication difficult? (4 Marks)

SECTION III: LONG ANSWER QUESTIONS [20 MARKS]

- Using relevant examples, describe the specimens that may be selected for laboratory diagnosis of parasitic infections. [20 Marks]
- 2. a). Outline the life cycle of the parasite Plasmodium. [10 marks]
 - b). Why has it become difficult to control the spread of this parasite? [10 marks]