

UNIVERSITY OF SWAZILAND Faculty of Health Sciences

Department of General Nursing

RE-SIT EXAMINATION PAPER JULY 2018

TITLE OF PAPE

: INTRODUCTION TO PARASITOLOGY FOR NURSES

COURSE CODE

: GNS104

DURATION:

: 2.0 **HOURS**

PROGRAMME:

: BACHELOR OF NURSING SCIENCE

MARKS

: 100

INSTRUCTIONS:

: READ THE QUESTIONS

AND INSTRUCTIONS CAREFULLY.

: ANSWER QUESTION 1 AND ANY OTHER

THREE(3) QUESTIONS.

: WRITE NEATLY AND CLEARLY

: NO PAPER SHOULD BE BROUGHT INTO OR

OUT OF THE EXAMINATION ROOM.

: BEGIN EACH QUESTION ON A SEPARATE

SHEET OF PAPER.

DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR

QUESTION 1: COMPULSORY[All candidates must answer this question] Write TRUE OR FALSE against the question number in the answer booklet. (25)

	THOSE OIL THESE against the question number in the theory of soon	()	
1)	Coccidia are intestinal protozoan parasites infecting man and belong to the genu		
	Eimeria.	(2)	
2)	Sporulated Oocysts of Toxoplasma gondii are commonly tra	ansmitted via	
	contaminated food and water.	(2)	
3)	The most common Trematodes species that infects man is Faciola ha	epatica and its	
	indirect life cycle requires a snail as an Intermediate Host.	(2)	
4)	The Final Host becomes infected with F. hepatica by ingesting the	infective stage	
	cercaria with contaminated vegetables.	(2)	
5)	Large numbers of immature stages of F. hepatica in the small in	ntestine causes	
	destruction of mucous membrane resulting in diarrhoea.	(2)	
6)	The life cycle of tapeworms such as Taenia saginata is indirect.	Man becomes	
	infected by ingesting uninspected meat carrying the infective stage	of the parasite	
	called Rediae.	(2)	
7)	The most important and widely distributed nematodes are the Hooky	vorms, Ascaris	
	spp., Enterobius vermiculari and Strongyloides stercoralis.	(2)	
8)	The life cycle of most nematodes is direct. They do not require other	er intermediate	
	hosts to complete their life cycles.	(2)	
9)	Most protozoa are highly motile; many have no flagella, cilia a	nd undulating	
	membrane as organs of locomotion.	(2)	
10) Protozoa reproduction is complex and does not involve both asexual and sexual			
	processes at times in the same species.	(2)	
11) Protozoan cysts may remain viable in external environment for many months.(1)			
12) Life cycle of Giardia includes the following developmental stages; Cyst and			
	Trophozoites.	(1)	
13	Giardia can interfere with nutrient absorption especially lipids.	(1)	
14	All nematodes parasitic worms consist of unsegmented bodies.	(1)	
15) The predominant species of malaria parasite responsible for disease in all endemic			
	countries in the world is Plasmodium ovale.	(1)	

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QUESTION 2		
a) Briefly outline the life cycle of hookworms.	(5)	
b) List the 3 interaction factors that determine hookworm epidemiology.		
Describe how they could be used for prevention and control.	(10)	
c) Name 2 hookworm species of medical importance.	(2)	
d). Describe the pathogenesis of anaemia in hookworm infection.	(5)	
e) Describe the method of treatment for hookworm infection.	(3)	
	[25 marks]	
QUESTION 3		
Discuss the life cycle, clinical presentation, management and control		
of Plasmodium falciparum.	[25]	
QUESTION 4		
Giardiasis commonly results in sudden onset of watery diarrhea with	no blood or mucus	
among infected children leading to dehydration and death.		
a) What causes the diarrhea among patients infected with Giardia lan	mblia? (5)	
b) Why is blood and mucus rare in faeces of patients of giardiasis?	(2)	
c) Explain how children acquire infection with Giardia lamblia.	(2)	
d) Giardiasis is sometimes referred to as "traveller's diarrhoea" Why is the disease called		
so?	(4)	
e) Name one drug recommended for by the World Health Organisation for the successi		
treatment of giardiasis.	(1)	
f) Discuss three measures that maybe initiated in a community with	th high incidence of	
giardiasis to reduce the disease.	(6)	
g) What is the epidemiologic importance of finding Entamoeba coli in perso		
not infected with Entamoeba histolytica?	(3)	
h) Describe ONE feature commonly used by laboratory techniciams to differentiate of		
of Entamoeba histolytica from those of Entamoeba coli.	(2)	
	[25 marks]	

QUESTION 5

A six months pregnant 23 year old female arrives at the hospital clinic and complaints of a recurring vaginal discharge, itching and burning sensation with urination for several days.

- i. What is your tentative diagnosis? (5)
- ii. Explain the most useful clinical examination for a confirmative diagnosis. (5)
- iii. Explain the expected laboratory results for your suspected diagnosis. (5)
- Outline the most appropriate line of treatment and control for the suspected medical condition.

[25 marks]

END OF QUESTION PAPER