

MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF PURE AND APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES FOURTH YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE (BIOLOGY) SZL406 MEDICAL HELMINTHOLOGY

DATE: 10/12/2021 TIME: 11.00-1.00 PM

INSTRUCTIONS

Answer Question1 and any other two questions

Illustrate your answer with clean labelled diagrams wherever appropriate

QUESTION ONE (COMPULSORY) (30 MARKS)

a)	Explain a medical laboratory procedure used to diagnose anaemia.					
b)	Explain the symptoms characteristic to infections by pinworms in man.					
c)	Explain predisposing factors to infection of any three named cestodes to man.					
d)	Discuss the indirect transmission of any three helminths to man.					
e)	Explain the pathology caused by a filaria worm.					
f)	Explain the preventive management of Schistosoma haematobium infections to man.					
g)	Classify the major phyla to which helminths infectious to man belong.					
h)	Explain the pathogenicity of a heavy infestation by Taenia saginata in man.					
i)	Fill the table					
		Cestode	Infective stage	Predilection site		
			1	1		

Cestode	Infective stage	Predilection site
i.		
ii.		
iii.		

j) Explain the adaptations of tapeworms to a parasitic mode of life. (3 marks)

QUESTION TWO (20 MARKS)

a)	Discuss the life cycle of the Lancet fluke Dicrocoelium dendriticum	(16 marks)
b)	Discuss the pathology and pathogenicity of this parasite D. dendriticum	(4 marks)

QUESTION THREE (20 MARKS)

Using specific examples, discuss the management of helminthic infections in man.

(20 marks)

QUESTION FOUR (20 MARKS)

- a) Discuss the role of arthropods in the epidemiology of helminthic infections. (10 marks)
- b) Discuss a laboratory diagnosis of helminthic infections in man. (10 marks)

QUESTION FIVE (20 MARKS)

Discuss the transmission and pathology of the round worm Ascaris lumbricoides.

