

MACHAKOS UNIVERSITY

University Examinations 2019/2020 academic Year SCHOOL OF PURE AND APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES

FOURTH YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE IN BIOLOGY

SZL 406: MEDICAL HELMINTHOLOGY

DATE: 22/1/2021 TIME: 2.00-4.00 PM

INSTRUCTIONS

- 1. Answer Question one (compulsory) and **any two** questions in Section B.
- 2. Use clean well labelled diagrams wherever appropriate.

SECTION A

QUESTION ONE (30 MARKS) (COMPULSORY)

a)	Explai	n the predisposing factors to infection by Echinococcus granulosus in man	(3 marks)
b)	Explain any three methods of prevention of infection by Trchinella sprialis		(3 marks)
c)	Outline the methods of infection to man by Tichuris trichura		(3 marks)
d)	Explain the epidemiology of schistosomiasis in Kenya		(3 marks)
e)	Briefly describe sexual reproduction in Schistosoma mansonii		(3 marks)
f)	Explain the adaptations of trematodes to a parasitic mode of life		(3 marks)
g)	Illustrate the structure of a mature proglottid of a tape worm		(3 marks)
h)	Explain the pathogenicity of the following disease conditions in Kenya:		
	i.	Schistosomiasis	(3 marks)
	ii.	Hydatidosis	(3 marks)
i)	Briedly discuss the modes of reproduction in tape worms		(3 marks)

SECTION B

QUESTION TWO (20 MARKS)

- a) Outline the general life cycle of nematodes (8 marks)
- b) Trace the migratory life cycle of a named nematode (12 marks)

QUESTION THREE (20 MARKS)

Discuss the lifecycle of Fasciola hepatica

QUESTION FOUR (20 MARKS)

Using appropriate examples and their economic importance, classify the phylum Platyheminthes

QUESTION FIVE (20 MARKS)

Compare the management approaches to Filariasis and Schistosomiasis in Kenya