

KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF THE
DEGREE OF BACHELOR OF SCIENCE LABORATORY
TECHNOLOGY
FIRST SEMESTER 2021/2022
(FEBRUARY-JUNE, 2022)

ZOOL 240: GENERAL PARASITOLOGY

STREAM: Y2 S1

TIME: 2 HOURS

DAY: FRIDAY, 3:00 PM – 5:00 PM

DATE: 13/05/2022

INSTRUCTIONS:

- 1. Do not write anything on this question paper.***
- 2. Answer Section A (Compulsory) and any other TWO Questions in section B.***

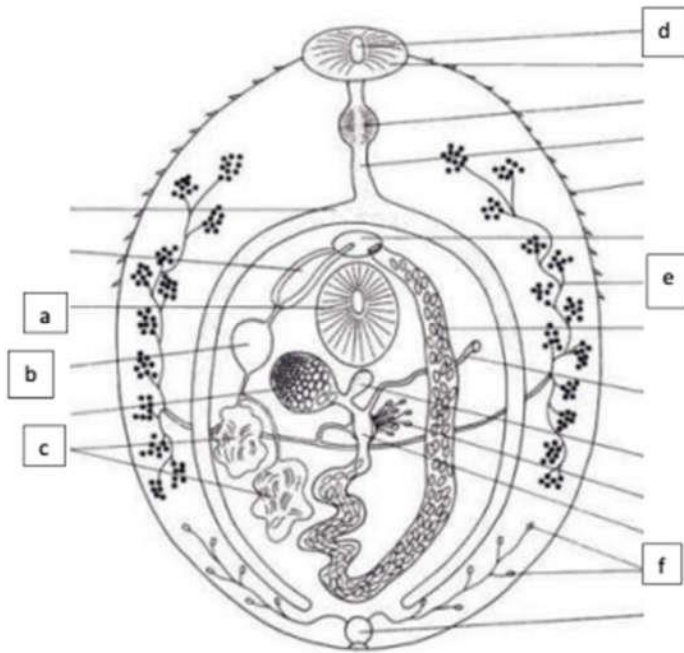
SECTION A (40MARKS)

1. Give the term which best describes the following statements . (3 marks)
 - a) Infections transmitted to man from lower vertebrate animals, e.g. cystic echinococcosis
 - b) Infections transmitted from man to lower vertebrate animals, e.g. human tuberculosis to cattle
 - c) Parasites, which infect a host where they cannot develop further e.g. *Toxocara canis* (dogroundworm)
2. What name is given to the ventral longitudinal groove on the male Scistosome. (1mark)
3. Give one example of the following groups of Protozoans (give full scientific name) (4marks)
4. Amoebae
Flagellates
Sporozoa
Ciliates
5. Name any three common members of Family Paragonomidae which cause human infections. (3 marks)

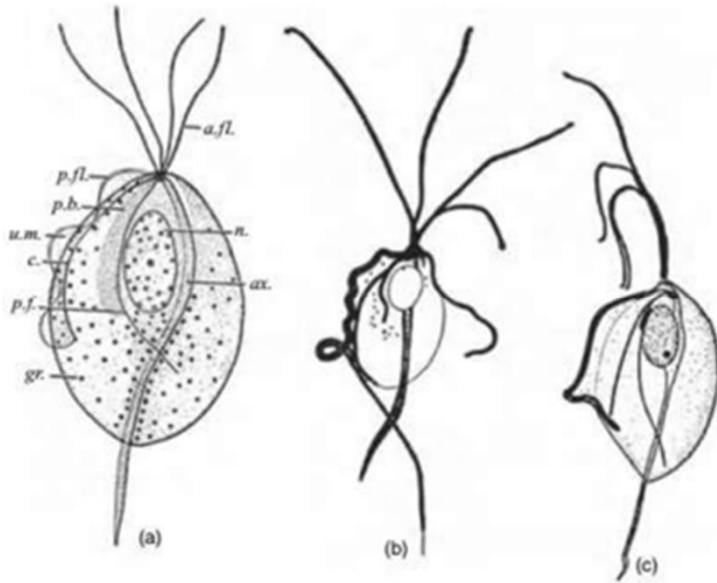
5. State three infective stage (s) of digenetic trematodes. (3 marks)
 6. Outline main features of kinetoplastids. (5 marks)
 7. State the causal organisms of the following parasitic diseases. (10 marks)

- a) Meningoencephalitis
- b) Chaga's disease
- c) Encephalitis
- d) Mal de caderas disease
- e) Keratitis
- f) Human African Trypanosomiasis
- g) Post-kala-azar dermal leishmaniasis
- h) Toxoplasmosis
- i) Texas fever
- j) Cerebral malaria

8. The diagram below shows a generalized structure of an adult digenean fluke. Label the parts indicated. (6 marks)



9. Give the names of the following diagrammatic representation of trichomonad parasites of humans. (3 marks)



10. Study the diagram below and answer the questions that follow



- a. Name the type of disease illustrated in the diagram above (1 mark)
- b. State its causal organism. (1 mark)

SECTION B 30 MARKS
ATTEMPT ANY TWO QUESTIONS

- 11 a. Outline the major differences between Ixodidae (hard ticks) and Argasidae (soft ticks) (10 marks)
- b. Briefly describe the life cycle of ticks. (5 marks)
- 12 a. Outline five main differences between innate and adaptive immunity. (5 marks)
- b. Discuss the defence mechanisms for innate immunity. (10 marks)
13. Discuss in detail the life cycle of *Taenia solium* (15 marks)