


KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF THE
DEGREE OF BACHELOR OF SCIENCE IN MEDICAL LABORATORY
SCIENCE
SECOND SEMESTER 2017/2018
(MAY - AUGUST, 2017)

MELS 266: MEDICAL PARASITOLOGY II

STREAM: Y2S2

TIME: 3 HOURS

DAY: THURSDAY, 2:00-5:00 PM

DATE: 24/08/2017

INSTRUCTIONS

1. Do not write anything on this question Paper.
2. Answer ALL questions in section A and any other TWO questions from section B.

SECTION A: ANSWER ALL QUESTIONS [40 MARKS]

1. Outline the states that arise from parasitic infections. [3 marks]
2. List the factors that affect geographical parasite distribution. [4 marks]
3. Briefly discuss the effects of parasites on the host. [2 marks]
4. Outline measures that can be taken to control schistosomiasis. [4 marks]
5. Draw a well labeled diagram of *T. vaginalis*. [3 marks]
6. Differentiate between microfilarial worms in terms of periodicity. [4 marks]
7. Using examples, describe the following terms: [3 marks]
 - (a) Strobila
 - (b) Cysticercus

(c) Hexacanth

8. List three species of flukes that infect humans and indicate their intermediate, definitive and reservoir host where appropriate. [6 marks]
9. An helminthologist working in a laboratory came across a stool sample that He suspected to have a mixed infection of *Schistosoma mansoni* and *Schistosoma japonicum*. Using diagrams, explain what he would have observed. [6 marks]
10. Briefly discuss the factors that need to be considered before accepting or rejecting a stool sample for parasitological examination. [5 marks]

SECTION B: ANSWER ANY TWO QUESTIONS [30 MARKS]

11. Discuss the morphology, lifecycle, pathology, diagnosis and control of *Giardia lamblia*. [15 marks]
- 12(a) Outline the differences between the two major hookworms. [7 marks]
- (b) Discuss the similarity in lifecycle and pathology of hookworms. [8 marks]
13. Discuss the use of the following methods during stool examination.
 - (a) Formal ether concentration [5 marks]
 - (b) Zinc sulphate floatation [5 marks]
 - (c) Direct wet preparation [5 marks]