

# OFFICE OF THE DEPUTY PRINCIPAL ACADEMICS, STUDENT AFFAIRS AND RESEARCH

# UNIVERSITY EXAMINATIONS 2020 /2021 ACADEMIC YEAR

FOURTH YEAR FIRST SEMESTER MAIN EXAMINATION

# FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE

**COURSE CODE:** 

**SBL 401 E** 

**COURSE TITLE:** 

ENTOMOLOGY AND PARASITOLOGY

DATE:

**9<sup>TH</sup> MARCH 2021** 

TIME: 9.00 A.M - 12.00 P.M

# **INSTRUCTIONS TO CANDIDATES**

• SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

## **SBL 401 E**

## **REGULAR - MAIN EXAM**

# SBL 401 E: ENTOMOLOGY AND PARASITOLOGY

STREAM: B.EDS DURA	ATION: 3 Hours
INSTRUCTIONS TO CANDIDATES	
i. Answer ALL questions from section A and any TH	<b>REE</b> from section B.
ii. Diagrams should be used whenever they serve to illustrate the answer.	
iii. Do not write on the question paper.	
SECTION A (24 MARKS)	
Owestian One	
Question One	
a) Outline seven characteristics used in the identification	
b) Describe the sources of parasitic infections using appro-	priate examples (5 Marks)
c) Citing examples, describe characteristics of the order D	Diptera. (3.5 Marks)
Question Two	
a) Give the medical effects of the following arthropods:	
i. Rat mite	(2 Marks)
ii. Black widow spider	(2 Marks)
i. True bug	(2 Marks)
b) Highlight the general characteristics of class Cestoda (	Γapeworms). (6 Marks)
SECTION B (36 MARKS)	
Question Three	
You are the head of malaria programme in Kenya. To effectively	y implement the program
Activities you need to understand malaria parasite and its transm	nission. Discuss the parasite
Plasmodium falciparum and it's lifecycle.	(12 Marks)

#### **SBL 401 E**

#### **Question Four**

Discuss bilharzia as a cause of morbidity worldwide.

(12 Marks)

### **Question Five**

Discuss the morphology, general life cycle and laboratory diagnosis of Entamoeba histolytica. (12 Marks)

#### **Question Six**

Explain the different disease transmission mechanisms by arthropods.

(12 Marks)

#### **Question Seven**

a). Discuss seven beneficial effects of arthropods.

(7 Marks)

b). Discuss the factors that have led to failure of eradication of trypanosomiasis in Kenya.

(5 Marks)

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