



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

UNIVERSITY MAIN EXAMINATION

FOR

BSC. AGRICULTURAL EDUCATION AND EXTENSION

ODEL PROGRAM

2021/2022 ACADEMIC YEAR

SECOND YEARS FIRST SEMESTER

COURSE CODE: SZL 212

COURSE TITLE: GENERAL ENTOMOLOGY

DATE: 27/04/2022

TIME: 12-2 PM

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in section A and ANY TWO in B

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over. ►

SECTION A: ANSWER ALL QUESTIONS (50 MARKS)

Question One (30 marks)

- a) Define entomology and write beneficial aspects of insect 10 Marks
- b) Draw a well-labeled diagram to illustrate piercing and sucking types of mouthparts in insects. 10 Marks
- c) Expatriate on any 5 reasons for the dominance of insects to other animals 10 Marks
- d) Using figures, enlist 5 types of legs of insects and give suitable examples 10 Marks

Question Two (15 marks)

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

Question Three (20 marks)

Discuss the determinants of the rate of membrane transport in goats 20 Marks

Question Four (20 marks)

Discuss metabolism during starvation in rabbits 20 Marks

Question Five (20 marks)

Discuss 5 digestion hormones in livestock 20 Marks