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(Knowledge for Development)

**KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR**

**FOURTH YEAR SECOND SEMESTER
MAIN EXAMINATIONS**

FOR THE DEGREE OF BACHELOR OF BIORESOURCE MANAGEMENT.

COURSE CODE: SZL 424

COURSE TITLE: APPLIED ENTOMOLOGY

DATE: Wednesday 11th November, 2020. **TIME:** 2:00 -4:00 p.m.

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating:

1.

- a) Describe the harmful effects of using insecticides to the environment (4 marks).
- b) Explain why the use of biological control is regarded as a better alternative in controlling insect pests (3 marks).
- c) State four insecticidal formulations found in Kenya (4 marks).
- d) Name the plant pathogens transmitted by the following insect vectors
- i. Aphids (1 mark).
 - ii. White flies (1 mark).
 - iii. Leaf miner flies (1 mark).
 - iv. Maize leaf hopper (1 mark).
- e) Give the differences between Argasid and Ixodid ticks (4 marks).
- f) Explain the reasons for expansion of many pests of previously restricted distribution (4 marks).
- g) State four pests of legumes and their effects (4 marks).
- h) Cite what you would regard as a household pest (3 marks).
2. Using relevant examples, discuss insecticide resistance (20 marks).
3. Describe the cultural methods used in insect control (20marks)
4. With illustrations and examples where possible describe the biology of a three host tick (20marks).
5. Giving examples discuss four categories of insect pests (20marks).