



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
DEPARTMENT OF BIOLOGICAL SCIENCES
2024 1 EXAMINATION

COURSE CODE: BIO 414
COURSE TITLE: APPLIED ENTOMOLOGY
CREDIT UNIT: 3 UNITS
TIME ALLOWED: 3 HOURS

INSTRUCTION: ANSWER QUESTION ONE AND ANY THREE OTHERS.

Q1

- a. Define the following terms; (3marks)
- Nomenclature,
 - Classification
 - Taxonomy
- b. Justify why insects are successful on land. (3marks)
- c. Enumerate three (3) biological methods tools or components of Integrated Pest Management (3marks)
- d. Write on any two (2) of the following integrated pest management (IPM) approaches. (7marks)
- Time applications correctly
 - Mix and apply carefully
 - Alternate different insecticide classes
- e. Describe the roles of any two (2) of the followings in bee hive; (9marks)
- Worker
 - Queen
 - Drone

Q2

- a. Enumerate the ornamental/entertainment usefulness of insects. (3marks)
- b. With appropriate example(s), describe any three (3) of the listed families of economic insects; (6marks)
- Family Varroidae
 - Family Tarsonemidae
 - Family Pyemotidae
 - Family Trombidiidae
- c. Pesticides exhibit different behaviours in the environment, Justify. (8marks)
- d. Explain any four types of plant resistance (genetic resistance) in insect (8marks)