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## NATIONAL OPEN UNIVERSITY OF NIGERIA

National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science

## **APRIL 2019 EXAMINATIONS**

**COURSE CODE: BIO 414** 

**COURSE TITLE: APPLIED ENTOMOLOGY (2 CREDIT UNITS)** 

TIME ALLOWED: 2HOURS

INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER THREE QUESTIONS.

- 1. a. Define pest, pesticides and chemical pest control (3marks)
  - b. Enumerate **ten** ideal qualities of an insecticide (**5marks**)
  - c. Based on organisms against which the pesticides are used, mention four
    different types of pesticides (2marks)
- d. Give a concise classification of insects based on their economic importance. Mention at least **one** example in each classification (**5marks**)
- e. Honey bee is known to be a very good example of an economic insect. Briefly describe its life Cycle (10marks)
- 2. a. Mention **ten** parasitic mites of mammals (**10marks**)
  - b. Enumerate **five** mites of named invertebrate organisms (**5marks**)

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- 3. a. The classification of an insect as a pest is a subjective one, based on its potential damage to human purposes. Explain (8marks).
  - b. State four reasons why some insects are considered as pest? (4marks).
  - c. Mention three insects that are considered as pests (3marks).
- 4. a. What are the important advancements reckoned with in the study of insecticide metabolism? **(6marks)** 
  - b. Briefly explain the properties of pesticides which determine their behavior and fate (4marks)
  - c. Explain how Pesticides enters into the atmosphere (5marks)
- 5. a. Give characteristics with examples of predator-prey and host-parasitoid relationships amongst insects (5marks)
  - b. Mention the specific orders of insects that are involved in these relationships (5marks)
  - c. Explain the techniques used by insect as predators and parasitoids (5marks)