



**NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
MARCH/APRIL 2016 EXAMINATION**

SCHOOL OF SCIENCE AND TECHNOLOGY

COURSE CODE: BIO414
COURSE TITLE: APPLIED ENTOMOLOGY

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION 1 (COMPULSORY) AND ANY OTHER THREE QUESTIONS.

1. a. State the factors responsible for the success / extensive distribution of insects **(5marks)**
b. In outline form, give a general classification of insects (termites and mosquitoes) **(10marks)**
2. a. State the general characteristics of insects that you know **(5marks)**
b. Give a succinct economic classification of insects **(10marks)**
3. a. Explain what is meant by a pest and chemical pest control and pesticides **(3marks)**
b. Outline **ten** ideal qualities of an insecticide **(10marks)**
c. Based on organisms or pest organism against which the compounds are used, mention four different types of pesticides **(2marks)**
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. What is the term Resistance **(5marks)**
b. Give examples of resistance **(5marks)**
c. Explain five mechanisms of resistance that you know **(5marks)**

6.a. Give 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 predators and parasitoids **(5marks)**