



National Open University of Nigeria
Plot 91, Cadastral Zone, NnamdiAzikiwe Expressway, Jabi - Abuja
FACULTY OF SCIENCE

2017_2 EXAMINATION

COURSE CODE: BIO 407 (2 units)

COURSE TITLE: BASIC ENTOMOLOGY

TIME ALLOWED: 2HOURS

Instruction: Question 1 is compulsory and any other three questions.

- 1a. List 10 types of antenna found in insects (5marks)
- b List 5 detrimental effects of Insects(5marks)
- c. Itemize the basic units of the insect head(5marks)
- .d. Describe the following types of larva found in insects
 - i. Protopod larva
 - ii. Polypod larva (10 marks)

2. Explain why insects are the “conquerors of the land” (15marks)

3. Write the 5 characteristic each of the following insect Orders (15marks)
 - a. Order Protura
 - b. Order Collembola
 - c. Order Diplura

4.
 - a. List 4 members of the order Diptera (2marks)
 - b. Enumerate four characteristic features in the Order Diptera(4 marks)
 - c. Explain the three basic mouth types that exist in the Order Diptera (3marks)
 - di. List 2 members of the Order hymenoptera(1mark)
 - ii. Enumerate 5 economic importance of the Order hymenoptera(5marks)

5.
 - a. Describe the characteristics and roles of the following members of termite community:
 - i. Workers
 - ii. Soldiers(7 marks)
 - 5b.
 - i. Describe the alimentary canal of a cockroach (6marks)
 - ii List the parts of the foregut of an insect (2marks)