



**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)