

 **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)

1. Order Protura
2. Order Collembola
3. 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)