



**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja  
Faculty of Science**

**DEPARTMENT OF BIOLOGICAL SCIENCES**

**2024\_2 EXAMINATION**

**COURSE CODE: BIO 407**

**COURSE TITLE: BASIC ENTOMOLOGY**

**CREDIT UNIT: 2 UNITS**

**TIME ALLOWED: 2 HOURS**

**INSTRUCTION: ANSWER QUESTION ONE AND ANY TWO OTHERS.**

- 1a. Outline the elements of Classification. 10marks
  - b. State the economic importance of flies. 5marks
  - c. Describe the following groups of insects. 15marks
    - i. Odonata. 5marks
    - ii. Dictyoptera. 5marks
    - iii. Collembola. 5marks
  
- 2a. Outline the order Lepidoptera. 10marks
  - b. Describe the features of the thoracic segments. 10marks
  
- 3a. Differentiate between the Coxa and Tarsus. 6marks
  - b. State the insect leg modifications to their functions with examples. 5marks
  - c. Describe the insect legs. 9marks
  
- 4a. State the characteristics of the forewings of insects. 7marks
  - b. Enumerate the features of the Midgut of insects. 10marks
  - c. State three characteristics of Polypod larva. 3marks
  
- 5a. State the distinguishable features of the hindgut of insects. 10marks
  - b. Describe ecdysis in insects. 10marks