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National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science

APRIL 2019 EXAMINATION

COURSE CODE: BIO 407

COURSE TITLE: BASIC ENTOMOLOGY (2 CREDIT UNITS)

TIME ALLOWED: 2HOURS

INTRUCTION: QUESTION ONE IS COMPULSORY AND ANY OTHER THREE QUESTIONS.

- 1. a. Enumerate ten characteristics of insects (5marks)
- b. State **five** beneficial and detrimental effects of insects (5 marks)
- c. Outline **five** factors that contributes to the success of insects (**5marks**)
- e. Briefly describe the evolution of insects (5marks)
- f. What is **Tagmatization** in insects? (5marks)
- **2.** a. The foregut of the digestive system of insects is divided into four regions:
- i. Name these **four** regions (4 marks)
- ii. State **one** characteristic feature/function of each of these regions (**4marks**)
- b. Mention the three divisions of the Visceral Central Nervous system of insects (3marks)
- c. State **one** function each of these divisions of the Visceral Central Nervous system of insects (3marks)
- d. The trachea system of insects is divided into two on the basis of spiracles. Mention these two systems (1mark).

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- **3**. a The class **Apterygota** is classified as one the most primitive class of insects because they possess certain characteristics. State these characteristics (**3marks**).
- b. Outline five characteristics of the Proturans (5marks)
- c. Cockroaches belong to the group of insects called **Dictyoptera**. List **five** characteristics of this group (**5marks**)
- d. State any four economic importance of flies (2marks).
- 4. a. Describe the mouth part of insects (5marks).
- b. i. Mention two basic types of mouth parts found in insects (2marks).
 - ii. State one function each of these mouth parts found in insects? (2marks)
- c. State the two functions of Maxilla in insects (2marks)
- d. The legs of insects consist of six segments. List any **four** of these segments (**4marks**)
- 5. a. i. Define moulting in insect (2 mark)
- ii. Describe the process of moulting in insects (13 marks)