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NATIONAL OPEN UNIVERSITY OF NIGERIA

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

DEPARTMENT OF BIOLOGICAL SCIENCES

2022_2 EXAMINATION

COURSE CODE: BIO 407 COURSE TITLE: BASIC ENTOMOLOGY CREDIT UNIT: 2 UNITS TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS.

- 1. a. Outline the factors that contribute to the success of insects. 10marks
 - b. Write short note on the following groups insects:
 - i. Odonata 5marks
 - ii. Dictyoptera 5marks
 - iii. Orthoptera 5marks
 - iv. Isoptera 5marks
- 2. a. What is tagmatisation? 5marks
 - b. Name three distinctive tagma of insects. How many segments does each tagma possess? 6marks
 - c. Classify the head of insects based on its orientation with the mouthpart 3marks
 - d. State the economic importance of the following orders of insects:
 - i. Aphaniptera (Fleas) 3marks
 - ii. Hemiptera 3marks
- 3. a. i. Describe the structure of antenna in insects 3marks
 - ii. List five different types of antenna. 5marks
 - iii. What are the main functions of antenna in insects? 4marks

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- b. Define the following terms:
 - i. Veination. 2marks
 - ii. Vails. 2marks
 - iii. Spiracles. 2marks
 - iv. Taenidia. 2marks
- 4. a. i. What is Maxilla. 5marks
 - ii. State the functions of maxilla. 3marks
 - bi. Describe the thorax of an insect. 4marks
 - iii. List the three divisions of the thorax. 3marks
 - iv. Enumerate any five beneficial effects of insects. 5marks
- 5. a. What are social insects? 5marks
 - b. Write short notes on the following:
 - a. King and queen 3marks
 - b. Workers 6marks
 - c. Soldiers 6marks

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