



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI - ABUJA
FACULTY OF SCIENCE
Department of Pure and Applied Sciences
2022_1 EXAMINATION.

COURSE CODE: BIO407

COURSE TITLE: BASIC ENTOMOLOGY

CREDIT: 2 UNITS

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER NUMBER ONE (1) AND ANY OTHER THREE (3) QUESTIONS

- Q1a. Insects are ‘conqueror of the land’. Explain 8marks
b. Justify the rationale that Apterygota are the most primitive insect. 4marks
c. Outline the three economic importance of fleas. 3marks
d. State four characteristics of insects maxillae. 4marks
e. Give a detailed description of the excretory system of insects. 6marks
- Q2 a. Outline the Binomial rules in taxonomy 4marks
b. Describe the different types of larva appearance in beetles. 6marks
c. List the appendages found in insect antennae. 5marks
- Q3 a. Write short notes on the followings:
i. Coxa 3marks
ii. Tarsus 3marks
iii. Pretarsus 3marks
b. Briefly explain growth in Insects. 6marks
- Q4 a. Cockroaches differ from Mantids. Discuss. 3marks
b. List and explain the components of visceral nervous system in insects 4.5marks
c. Provide a schematic representation only of how insects evolved. 7.5marks
- Q5 a. State five characteristics of members of order Orthoptera. 5marks
b. Write short notes on the followings:
i. Nervous system in cockroach 5marks
ii. Alimentary canal of cockroach 5marks