

## OLABISI ONABANJO UNIVERSITY, AGO-IWOYE FACULTY OF SCIENCE DEPARTMENT OF ZOOLOGY AND ENVIRONMENTAL BIOLOGY

## 2018/2019 HARMATTAN SEMESTER EXAMINATION APZ 403 – APPLIED ENTOMOLOGY 1

Instruction: Answer the questions in Section A and ANY other Two (2) questions from Section B

Time allowed: 2hrs

- On a Cola nitida farm, the following parameters were recorded, Economic Injury Level (EIL)-7,500 insects/ha; Market value in naira per unit cost-#2,000/tonne; Crop injury per pest density- 100 defoliations/ insects; Loss caused by unit injury- 0.05tonne loss/defoliation, while the Proportionate reduction in injury by pesticide application is 8% control. Calculate the Management cost per unit area, (C).
  - b. Classify chemical control agents based on;
    - (i) Mode of Entry
- (ii) target organisms
- c. Present a brief account of the following;
  - (i) Novel methods in Insect pest control (ii) Integrated Pest Management.
- d. Write short notes on four named insects of medical importance.

## SECTION B

- 2a. Discuss the term "Insect Pest"
  - b. Write an essay on insect damage and its various types.
- 3a. Population plays a vital role in pest management. Explain the parameters used to describe insect population levels.
- b. What are the qualities of a natural enemy?
- 4a. Describe the stages involved in biological control programme.
- b. Highlight the importance of biological control method.

