



**FIJI NATIONAL UNIVERSITY**  
**COLLEGE OF AGRICULTURE, FISHERIES AND FORESTRY**

**Trade Diploma in AGRICULTURE First Year Third Trimester Final Examination- 2015**

**ENT 503: Applied Entomology**

**Time Allowed: 3.00 hours plus (10 minutes reading time)**

**Total Marks: 50**

**INSTRUCTIONS:**

1. This paper consists of four pages including one Answer Sheet.
2. Please check to see that all your paper is complete.
3. Answer all the Objective Type Questions on the Answer Sheet and Descriptive Type Question in the Answer Booklet only.
4. The Answer sheet of the objective Type Questions will be collected 30 Minutes after the start of Examination.
5. No written or printed material and mobile phones are allowed in the examination hall.
6. Marks allocated for each question appears at the side of each question so allocate your time accordingly.
7. This paper is having two parts. The first part contains Objective Type Questions which is having Three Sections – A, B and C. The second part contains Descriptive Type Questions.

**I. OBJECTIVE TYPE QUESTIONS (10 Marks)**

**To be answered only on the Answer Sheet.**

Section A: Fill in the blanks. (3 Marks)

Section B: True or False Questions. (2 Marks)

Section C: Multiple choice Questions. (5 Marks)

**II. DESCRIPTIVE TYPE QUESTIONS (40 marks)**

**There is one part in descriptive type questions. It is compulsory to attempt four (4) questions. Write your answer on the Answer Booklet. Answer every question from a new page to facilitate evaluation.**

Note: Answer only on the Answer Sheet and return 30 minutes after the start of Examination.

Time: 0.30 hrs.

Total Marks: 10

A. Fill in the blanks. (3x1=3 Marks)

1. The scientific name for Fijian fruit fly is .....
2. The scientific name for Pacific fruit fly is .....
3. The scientific name of the common pest of *Colocasia esculenta* in Fiji is .....

B. True or False questions: Select the correct answer. (2x1=2 Marks)

4. Syringes are simplest sprayers consisting of a cylinder and a plunger.....
5. Pesticides can be applied only as dusts and aerosols.....

C. Multiple choice questions: Select the correct answer. (5x1=5 Marks)

6. *Pseudaletia unipuncta* is the scientific name for .....

A.	Armyworm	B.	Rootworm
C.	Corn Earworm	D.	Stalk Borer

7. The ..... is the scientific name for Rootworm

A.	<i>Helicoverpa zea.</i>	B.	<i>Pseudaletia unipuncta</i>
C.	<i>Pseudaletia unipuncta</i>	D.	<i>Diabrotica virgifera virgifera</i>

8. Young ..... larvae have a pale green color with longitudinal stripes

A.	Armyworm	B.	Stalk Borer
C.	Rootworm	D.	Corn Earworm

9. Young .....larvae are dark purple or black, and have white stripes on both ends.

A.	Armyworm	B.	Stalk Borer
C.	Rootworm	D.	Corn Earworm

10. .... are conducted to establish the boundaries of an area considered to be infested by or free from a pest.

A.	Delimiting Survey	B.	Monitoring Survey
C.	Detection Survey	D.	None of the above

## II. Descriptive type Questions

(40 Marks)

**Note: Attempt FOUR Questions Only. FOUR questions from this part are compulsory. All carries ten (10) marks each.**

1. Discuss the different feeding habits of phytophagous insects? (10)
2. Discuss Insect Replacement, Resurgence and Resistance? (10)
3. Discuss about the chemical composition of insecticide category? (10)
4. Discuss 5 different formulations of insecticide? (10)
5. Discuss the following terms:
  - i) Surveillance (2)
  - ii) Survey (2)
  - iii) Organic pesticide (2)
  - iv) Inorganic pesticide (2)
  - v) Synthetic pesticide (2)

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