



FIJI NATIONAL UNIVERSITY
College of Agriculture, Fisheries & Forestry
School of Agricultural Sciences and Forestry
Department of Entomology & Plant Pathology
Bachelor of Science in Agriculture, Year III
Final Examination
Trimester II-2019
ENT 701 : Integrated Insect Pest management

Time Allowed: 3.00 hours plus (10 minutes reading time) Total Marks: 100

INSTRUCTIONS:

1. This paper consists of **Three** pages.
2. Please check to see that all your answer script is complete.
3. Answer all questions in the **Answer Booklet** only.
4. No written or printed material and mobile phones are allowed in the examination hall
5. Marks allocated for each question appears at the side of each question so allocate your time accordingly.
6. This paper is divided into **Three sections**

Section A: Fill in the blanks (10 Marks)

Section B: Short answers (30 Marks)

Section C: Essay (60 Marks)

Student ID No.:

Date.....

Section A. Fill in the blanks.

(10x1=10 Marks)

1. Hand picking is done forinsects.
2. Contact insecticides enters the insects through.....
3. Mist spray nozzle is fitted in.....
4. Pest outbreaks occurs whenever financial loss is..... Cost of control
5. The field capacity of stirrup pump sprayer is
6. Population size per unit area is known as -----
7. The way in which individuals are distributed in space is known as-----
8. Animals obtains heat primarily from metabolic reaction are called.....
9. -----is a mathematical characteristics of a population
10. The rate at which the individuals are lost by death is known as -----

Section B. Short Answers.**30 marks**

1	Discuss levels of ecological studies	(5)
2	Discuss Botanical pesticides	(5)
3	Define any Three: Key Pests, Economic Injury level, Economic threshold, Economic damage, Economic Pests	(5)
4	Discuss Biological control of viruses	(5)
5	Discuss Biological control of parasites.	(5)
6	The amount of malathion 25 EC when applied as 0.025% with 300 lits volume of spray solution. Calculate the amount of pesticide to be used using formula.	(5)

Section C. Essay questions**(60 Marks)****Note: Attempt Any FIVE Questions Only. All carries equal TWELVE marks.**

1	Define IPM. Discuss the history and tools of IPM.	(12)
2	Define population. Discuss attributes of population.	(12)
3	Define Ecosystem. Discuss abiotic and biotic factors.	(12)
4	Discuss principals of forest insect management.	(12)
5	Discuss Economic Injury Level concept.	(12)
6	Discuss Organophosphates and carbamates insecticides.	(12)
7	List Plant Protection equipments and discuss any one in detail.	(12)

The End