

COLLEGE OF AGRICULTURE, FISHERIES & FORESTRY

SCHOOL OF AGRICULTURE SCIENCE

Bachelor of Science in Agriculture Year 3: Trimester 2 Examination, 2017

PPA 701: Integrated Disease Management

Allocated Time: 3 hours and 10 Minutes (Reading Time)

Allocated Marks: 50

Instructions:

1. This paper is consist of **One** sections only. The Section is **compulsory**. Take Note of the Option given.
2. Ensure to write your names and ID Number on each sheet of paper of the answer sheet.
3. No written or printed materials are allowed into the examination room.
4. No mobile phone and other electronic device is allowed into the examination room.
5. You need to provide your own writing materials for the examination.
6. Write all your answers in the Answer sheet provided.

The table below shows the breakdown of the assessment paper and allocated time and marks.

Section	Section Description	Suggested Time	Allocated Marks
A	5 Essay Questions	175 minutes	50

Essay Writing:

(50 Marks)

Select **ANY 5** questions from the 7 questions given and write an essay of 800-1000 words based on the topic selected. Ensure to support your arguments with examples. The essay should contain your recommendations after critically analyzing the subject matter. You are free to express yourself on what you believe should be done after critically analyzing the subject matter.

Question 1:

Quarantine measures is one of the most important aspect of **Integrated Disease Management**. Based on any country in the Pacific, identify how Quarantine measures can be incorporated into IDM to ensure the viability of our Agricultural Industry.

Question 2:

Briefly explain the 5 approaches of Integrated Disease Management and briefly explain how these approaches play a vital role in prevention and eradication of disease spread in Fiji and the Region.

Question 3:

As a Plant Pathologist, you were invited by a local farmer to visit his farm to give advice on what is happening to his crops which has wilted with signs of fruit rot. Briefly explain, what are some of the important strategies you need to carry out in order to find the solution for the problem. Also, highlight your recommendation to the farmer.

Question 4:

Based on Signs and Symptoms of Diseases, briefly explain on the following Disease symptoms: Hypoplastic and Hyperplastic, Necrotic and Chlorotic, Primary and Secondary, and Lesional and Habital.

Question 5:

With reference to a particular Crop, discuss the differences between biotic and abiotic factors causing diseases and state some of the ways to minimize or prevent the spread of disease through biotic factors. You need to relate these control measures to the chosen crop of your choice.

Question 6

As a farmer, you were given a new piece of land to plant Vegetable Crops. There was a disease epidemic on the area. Explain some of the cultural practices that you would use to prevent the introduction of the disease into your farm. Support your ideas with given examples.

Question 7

Explain how fungi establishes itself in a host plant after first inoculation and how they were able to disperse with given agents or modes of dispersal.

The End