

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: III (New)	Term	: First	Academic Year	: 2022-23
Course No.	: PATH 232	Title	: Principles of Integrated Disease Management		
Credits	: 2(1+1)				
Day & Date	: Saturday, 11.02.2023	Time	: 09:00 to 11:00 hrs.	Total Marks	: 40

- Note :**
1. Solve ANY EIGHT questions from SECTION 'A'.
 2. All questions from SECTION 'B' are compulsory.
 3. All questions carry equal marks.
 4. Draw neat diagram wherever necessary.

SECTION 'A'

- ✓ Q.1 Describe the basic principles and advantages of IPM.
- ✓ Q.2 Discuss how plant diseases play an important role in national economy.
- ✓ Q.3 What do you mean by PRA? Describe in brief about the stages of Pest Risk Analysis.
- ✓ Q.4 Define Diagnosis and Detection. Explain the steps involved in diagnosis of plant disease.
- ✓ Q.5 Write short notes on (Any Two):
- ✓ a) Plant disease forecasting
 - b) Measurement of losses due to plant diseases
 - ✓ c) Survey and surveillance
- Q.6 Enlist the Cultural methods of plant disease management. Explain any six methods with suitable examples.
- Q.7 Explain the Physical and Mechanical methods of plant disease management.
- ✓ Q.8 What are the requirements for implementation of IPM? Discuss the IPDM model for any one field crop with its diseases.
- ✓ Q.9 Describe in brief the following (Any Two):
- ✓ a) Plant quarantine
 - b) Conventional pesticides for plant disease management
 - ✓ c) Tools of IPM
- ✓ Q.10 What are the safety issues taken during handling of pesticides?

SECTION 'B'

- ✓ Q.11 Define the following terms:
- 1) Integrated Pest Management
 - 2) Genetic engineering
 - 3) Tissue culture
 - 4) Symptoms
- Q.12 Fill in the blanks:
- 1) IPPC stands for _____.
 - 2) _____ is used for detection or identification of highly sensitive pathogens.
 - 3) _____ is mostly used as a tree wound dresser.
 - 4) Leaf whorl application of fungicides is mostly used in _____ crop.

