

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION
B.Sc.(Hons.) Agri-Business Management

Semester : I (New)	Term : First	Academic Year : 2024-25
Course No. : PATH-111	Title : Management of Plant Diseases	
Credits : 2(1+1)		
Day & Date : Saturday, 08.02.2025	Time : 10:00 to 12:00 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 Explain in brief the economic significance of post-harvest and seed-borne diseases.
- Q.2 Define Seed Pathology and state the objectives of Seed Pathology.
- Q.3 Enlist various mycotoxins and explain in detail about aflatoxins.
- Q.4 Give the classification of fungicides based on general use.
- Q.5 Enlist the principles of plant diseases management and explain in detail any two of them.
- Q.6 Define IDM. Describe in brief the concept of IDM with its importance.
- Q.7 Write in short about management of post-harvest diseases.
- Q.8 Explain the methods of detection of plant pathogens.
- Q.9 Enlist different methods of application of fungicides and explain in detail any one of them.
- Q.10 Write short notes on (Any Two):
 - a) Benefits of seed treatment
 - b) Seed processing
 - c) Factors responsible for the development of epidemic

SECTION 'B'

- Q.11 Define the following terms:
 - 1) Epidemiology
 - 2) Seed Pathology
 - 3) Seed contamination
 - 4) Quarantine
- Q.12 Do as directed:
 - 1) Name the fungus that produces aflatoxin.
 - 2) Paul Neergaard is considered as the 'Father of Seed Pathology'. (State True or False)
 - 3) Which fungus is responsible for Ergotism?
 - 4) P.M.A. Millardet discovered Bordeaux mixture. (State True or False)



Q.9 Write short notes on (Any Two):

- a) Phanerogamic plant parasites
- b) Virus replication
- c) Dispersal of plant pathogens

Q.10 a) What are Prokaryotes? Classify them according to Bergey's Manual.

b) Enlist the symptoms produced by plant viruses with examples.

SECTION 'B'

Q.11 Match the pairs:

'A'

'B'

- | | |
|-------------------|------------------------------------|
| 1) Necrosis | a) Late blight of potato |
| 2) Phyllody | b) Father of Phytobacteriology |
| 3) P.A. Micheli | c) Death of cell |
| 4) Ireland Famine | d) Post-infection application |
| 5) M.K. Patel | e) Transformation of floral organs |
| 6) Eradicant | f) <i>Aspergillus flavus</i> |
| 7) Protectant | g) Father of Mycology |
| 8) Storage fungus | h) For prophylactic usage |

Q.12 Define the following terms:

- 1) Pathogen
- 2) Incubation period
- 3) Facultative saprophyte
- 4) Virion
- 5) Compound interest disease
- 6) Hyperplasia
- 7) Symbiosis
- 8) Vertical resistance

