

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) A.B.M.

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|------------|------------------------|-------|--------------------------------|---------------|-----------|
| Semester | : IV (New) | Term | : Second | Academic Year | : 2022-23 |
| Course No. | : PATH 243 | Title | : Management of Plant Diseases | | |
| Credits | : 2 (1+1) | Time | : 9:00 to 11:00 hrs. | Total Marks | : 40 |
| Day & Date | : Saturday, 15.07.2023 | | | | |

- 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.
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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 What is mycotoxin? Write its effect on humans and animals on consumption.
- Q.4 Classify and explain in brief the fungicides on the basis of mode of action.
- Q.5 Enlist the principles of plant disease management and explain in brief about exclusion.
- Q.6 Enlist the methods for detection of seed borne pathogens and explain incubation test.
- Q.7 Explain in short the biotechnological approaches for disease management.
- Q.8 What are the factors considered while selecting the packaging materials and what should be the ideal storage facility?
- Q.9 Enlist the methods of post-harvest disease management and explain about biological method.
- Q.10 Write short notes on (Any Two):
- a) IDM module for post-harvest diseases
 - b) Factors responsible for the development of epidemic
 - c) Advantages of seed treatment

SECTION 'B'

- Q.11 Define the following terms:
- 1) Post-harvest diseases
 - 2) Seed contamination
 - 3) Symptoms
 - 4) Seed Pathology

- Q.12 Match the pairs:

'A'

- 1) Loose smut of wheat
- 2) Paul Neergaard
- 3) Late blight of potato
- 4) Aflatoxin

'B'

- a) *Phytophthora infestans*
- b) *Aspergillus flavus*
- c) Seed borne disease
- d) Father of Seed Pathology

