

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	: III (New)	Term	: I	Academic Year	: 2017-18
Course No.	: PATH 232	Title	: Principles of Plant Pathology		
Credits	: 2(1+1)				
Day & Date	: Tuesday, 14.11.2017	Time	: 9.00 to 11.00	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 diagrams wherever necessary.

SECTION "A"

- Q.1 Classify the defense mechanisms in plants and describe in detail the pre-existing biochemical defense mechanisms with suitable examples.
- Q.2 Define dissemination, classify various modes of plant pathogens dissemination and narrate continuous dissemination with suitable examples.
- Q.3 Write short notes (Any Two).
- a) Plant disease forecasting b) Biological control
- c) Physical methods of disease control d) Advantages of IDM
- Q.4 Enlist general principles of plant disease management. Explain in short exclusion with suitable examples.
- Q.5 Define perpetuation, enlist and narrate various modes of perpetuation of plant pathogenic fungi with suitable examples.
- Q.6 Define pathogenesis. Describe in brief the role of enzymes and growth regulators in pathogenesis.
- Q.7 Define infection and describe various mechanisms of infection by plant pathogens with suitable examples.
- Q.8 Differentiate between (Any Two).
- a) Alternate host and Collateral host b) Phytotoxins and Pathotoxins
- c) Polycyclic and Monocyclic disease d) Appressoria and Haustoria
- Q.9 Define biotechnology and describe in brief various biotechnological approaches employed to manage plant diseases.
- Q.10 Define fungicide. Enlist various methods of application of fungicides and describe foliar application method.

SECTION "B"

- Q.11 Do as directed.
- 1) Most commercially exploited fungal biocontrol agent is _____. (Fill up the blank)
- 2) An organism surviving on dead organic matter is termed as biotroph. (State true/false)
- 3) Bacteria are Passive /Active invaders (Choose correct word)
- 4) What do you mean by epidemic disease?
- Q.12 Define the following terms.
- 1) Inoculum 2) Resistance 3) Fungistat 4) Antibiotic

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