

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: III (New)	Term	: First	Academic Year	: 2023-24
Course No.	: II/PATH 231	Title	: Fundamentals of Pathology		
Credits	: 2 (1+1)	Time	: 9:00 to 11:00 hrs.	Total Marks	40
Day & Date	: Friday, 15.12.2023				

- 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.

SECTION 'A'

- Q.1 Define Symptoms. Enlist various categories of plant disease symptoms and explain any one with suitable example.
- Q.2 Give the important characters of bacteria and phytoplasma.
- Q.3 Write short notes on (Any Two):
- a) Survival of plant pathogens b) Plant disease forecasting c) Plant quarantine
- Q.4 Classify plant diseases on the basis of causes with suitable examples.
- Q.5 Define Dissemination and classify various modes of dispersal of plant pathogens with suitable examples.
- Q.6 Enlist various principles of plant disease management and briefly describe the role of eradication in plant disease management.
- Q.7 Define Infection. Enlist avenues of host penetration and give a brief account of mechanisms of infection.
- Q.8 Write one important contribution of the following Scientists (Any Four).
- a) Anton de Bary b) Robert Hooke c) K.C. Mehta d) P.A. Millardet e) Robert Koch
- Q.9 What do you mean by perpetuation? Describe various modes of perpetuation of plant pathogens.
- Q.10 Define Fungicides. Classify sulphur and copper based fungicides with suitable examples.

SECTION 'B'

- Q.11 Fill in the blanks:
- 1) Study of outbreak or spread of disease in a population is _____.
- 2) A complete virus particle is known as _____.
- 3) The nutrient absorbing appendages of a fungus are known as _____.
- 4) An example of complete root parasite is _____.
- Q.12 State True or False:
- 1) Biotrophs derive their nourishment solely from living hosts.
- 2) The study of fungi is called 'Phycology'.
- 3) Sporadic diseases occur irregularly with low intensity.
- 4) Bacterium with single polar flagellum is known as amphitrichous.

