MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE

SEMESTER END THEORY EXAMINATION

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

Semester	: **II (New)**	Term	: **Second**	Academic Year	: **2021-22**
Course No.	: **PATH 121**	Title	: **Introduction to Plant Pathology**		
Credits	: **2 (1+1)**				
Day & Date	: **Thursday, 15.09.2022**	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 Define Plant Pathology and write its objectives and significance.

Q.2 Mention one important contribution of following Scientists in the field of Plant Pathology:

a) E.J. Butler b) Anton de Bary

c) P.A. Millardet d) E.F. Smith

Q.3 Define Fungi and write its general characters with neat diagram.

Q.4 Enlist the methods of reproduction in fungi and describe in detail any two sexual methods.

Q.5 Enlist the important plant pathogenic organisms and explain in brief the bacterial cell structure.

Q.6 Enlist the principles of plant disease management and explain IDM in detail.

Q.7 Write in detail the general symptoms produced by plant parasitic nematodes.

Q.8 Define Pathogenesis and write in detail the role of enzymes in plant disease development.

Q.9 What is Epidemiology? Write in detail the factors responsible for the development of epidemic.

Q.10 Write short notes on (Any Two):

a) Defense mechanism in plants b) Dissemination of plant pathogens

c) Elements of epidemic

SECTION 'B'

Q.11 Define the following terms:

1) Virus 2) Epidemic disease 3) Phytoalexin 4) Pathogen

Q.12 State True or False:

1) Viruses contain only one type of nucleic acid either DNA or RNA.

2) Fungi are prokaryotic organisms.

3) A large number of flagella over the cell are called Lophotrichous.

4) Proteins produced in plants in the event of a pathogen attack are known as PR-Proteins.

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