MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	:	II (New)	Term	:	Second Academic Year : 2023-24			
Course No.		PATH 121	m'at.		Fundamentals of Plant Pathology			
Credits	:	3 (2+1)	Title	•				
Day & Date	:	Friday, 17.05.2024	Time	•	10:00 to 13:00 hrs. Total Marks : 80			
Note:	l.	Solve ANY EIGHT quest	ions from	SE	ECTION 'A'.			
5.4	2.	 All questions from SECTION 'B' are compulsory. All questions carry equal marks. 						
	3.							
	4.	Draw neat diagram wherev	ver necess	ary	y			

SECTION 'A'

- Q.1 3 Define Plant Pathology. Write down the objectives of Plant Pathology.
 - b) Enlist different plant pathogenic organisms and write in brief about virus.
- Q.2 3 Define Plant disease. Describe the economic importance of plant diseases.
 - b) Enlist the types of causes of plant diseases and explain biotic factors with suitable examples.
- Q.3 22 Define Reproduction and enlist various sexual and asexual methods of reproduction in fungi. Explain in detail gametangial contact.
 - Enlist the principles of plant disease management and describe the role of exclusion in plant disease management.
- Q.4 a) Give a brief description of general morphological characteristics of bacteria and describe the flagellar arrangement of bacterial cell.
 - (b) Define Symptoms. Enlist the various plant disease symptoms produced by biotic factors and explain any one in brief with suitable examples.
- ₩ Q.5 Write in brief the classification of fungicides on the basis of methods of application.
 - Enlist the classification of plant diseases and explain plant diseases on the basis of geographical distribution.
 - Q.6 a) Define Fungus with its general characteristics.
 - b) Describe the typical structure of fungus with diagram.
 - Q.7 a) Enlist any four fungicides along with their mode of action.
 - b) Write the different formulations of fungicides with suitable examples.
 - 2.8 Explain the Binomial system of nomenclature.
 - Illustrate the concept of plant disease and describe disease triangle.

(P.T.O.)

4 Q.9	Write short notes on (Any Two):	
	A) Morphology of nematode b) Sexual spore fruits in fungi c) Phanerogamic plant parasite	
Q.10	S. I. S. Hawing Scientists (Any Four).	e) John Needham
	SECTION 'B'	
Q.11	Define the following terms:	
١	1) Protozoology	- Carried Contract
	2) Disease tolerance	
	3) Pathogenicity	. 8°
	4) Pathogenesis	
	5) Hyperplasia	
	6) Hypertrophy	
1.	7) Biotroph	2
•	8) Thallus	
Q.12	Fill in the blanks:	
1	1) An example of partial root parasite is	
2	2) In ancient Rome (715-672 B.C.), an annual festival named blessings of the Rust God.	was held for
3	Hot water treatment method for the control of loose smut of versen.	wheat was given by
1 4	Generally an asci contains number of spores.	# # M
5	In bacteria, a cube of eight cells, is known as	1
16	Study of algae, is called as [Im cole 97.	
17	B.B. Mundkur wrote the book entitled + of eare	
	Any agent that causes damage to plant, is called as Pollugen.	er Tra
