Practice Set

End Semester (II[nd] Semester) Examination, May 2026

Program: B. Sc. (Hons.) Agriculture

Semester: II[nd]

Course: Fundamentals of Plant Pathology

Course Code: PP 121

Course objective

At the end of the course the student will be able to:

CO1 Gain a clear understanding of the concept of disease in plants and the terminology Commonly used in plant pathology.

CO2: Acquaint with the role of different microorganisms in the development of plant disease.

CO3: Understand the principles and practices of plant disease management including Chemical, cultural, biological, and host resistance methods.

Unit / Module-1

Section: I (5 Marks questions, only Lower order Thinking -LOT)

Sl. No.	Practice Questions	Bloom Taxonomy	CO
1.	Define plant pathology and state its importance in agriculture.	Remember	CO1
2.	Define the following terms: pathogen, host, disease, pandemic, and symptom.	Remember	CO1
3.	Differentiate between plant disease and physiological disorder.	Understand	CO1
4.	Briefly describe the history of plant pathology.	Remember	CO1
5.	Explain the concept of the disease triangle in plant pathology.	Understand	CO1

Section: II (10 Marks questions, only Higher Order Thinking)

Sl. No.	Practice Questions	Bloom Taxonomy	CO
6.	Apply the concept of the disease triangle to explain why a disease outbreak occurs suddenly under favorable environmental conditions.	Apply	CO1

7.	Analyze the evolution of plant pathology as a science and evaluate its significance in modern crop protection.	Analyze	CO1
8.	Discuss the contributions of key scientists in plant pathology and evaluate their role in the development of the subject in India.	Evaluate	CO1
9.	Breakdown the importance of standard terminology in plant pathology and its role in diagnosis and communication.	Analyze	CO1
10.	Compare and evaluate biotic and abiotic plant diseases and their management implications.	Evaluate	CO1

Unit / Module-2

Section: I (5 Marks questions, only Lower order Thinking -LOT)

Sl. No.	Practice Questions	Bloom Taxonomy	CO
11.	Differentiate between animate and inanimate causes of plant diseases with examples.	Understand	CO2
12.	Classify plant diseases based on their causes with examples.	Remember	CO2
13.	Define parasitism and explain different types of parasites in plants.	Understand	CO2
14.	Define pathogenesis and describe its importance in disease development.	Understand	CO2
15.	Explain the obligate and facultative parasites with examples.	Remember	CO2

Section: II (10 Marks questions, only Higher Order Thinking)

Sl. No.	Practice Questions	Bloom Taxonomy	CO
16.	Analyze the concept of parasitism and evaluate different types of host parasite interactions in plant diseases.	Analyze	CO2
17.	A crop shows uniform chlorosis across the field. Analyze whether the cause is animate or inanimate and justify your answer.	Analyze	CO2
18.	Evaluate the role of each component of the disease triangle in the rapid outbreak of fungal diseases under high humidity conditions.	Evaluate	CO2
19.	Evaluate the different types of parasitism and explain how their characteristics influence host–pathogen interactions.	Evaluate	CO2
20.	Analyze the process of disease development in plants. Explain how the disease triangle supports and influences disease development.	Analyze	CO2

Unit / Module-3

Section: I (5 Marks questions, only Lower order Thinking -LOT)

Sl. No.	Practice Questions	Bloom Taxonomy	CO
21.	Describe the general characteristics of fungi causing plant diseases.	Understand	CO2
22.	Classify fungi based on their reproductive structures with examples.	Remember	CO2
23.	Explain the morphology of phytopathogenic bacteria.	Remember	CO2
24.	Explain the characteristics of fastidious vascular bacteria.	Understand	CO2
25.	Describe the general characteristics of plant viruses.	Understand	CO2

Section: II (10 Marks questions, only Higher Order Thinking)

Sl. No.	Practice Questions	Bloom Taxonomy	CO
26.	Analyze the morphology, reproduction, and classification of fungi and evaluate their role in plant disease development.	Analyze	CO2
27.	Analyze the morphology, reproduction, and classification of plant pathogenic bacteria and evaluate their role in plant diseases.	Evaluate	CO2
28.	Create a chart showing fungal classification up to class level with key characteristics and examples.	Create	CO2
29.	Organize the phases in sexual reproduction of fungi and explain five methods of sexual reproduction.	Analyze	CO2
30.	Illustrate and breakdown the structure of bacteria with a labeled diagram.	Analyze	CO2

Unit / Module-4

Section: I (5 Marks questions, only Lower order Thinking -LOT)

Sl. No.	Practice Questions	Bloom Taxonomy	CO
31.	Explain the basic principles of plant disease management and describe different approaches used to control plant diseases.	Understand	CO3

32.	Discuss cultural methods used in plant disease management and how they help in reducing disease incidence.	Understand	CO3
33.	Define Integrated Disease Management (IDM) and list its key components used in plant disease control.	Remember	CO3
34.	Explain the concept of biological control and name some common biocontrol agents.	Remember	CO3
35.	List the advantages of Integrated Disease Management over chemical control alone.	Understand	CO3

Section: II (10 Marks questions, only Higher Order Thinking)

Sl. No.	Practice Questions	Bloom Taxonomy	CO
36.	Design an Integrated Disease Management (IDM) strategy for a major crop disease, incorporating chemical, biological, cultural, and host resistance methods. Justify your approach.	Create	CO3
37.	Assess the role of host resistance in plant disease management and discuss its advantages and limitations compared to other control methods.	Evaluate	CO3
38.	Develop a comprehensive disease management plan for a specific crop, integrating different control strategies and explaining their interactions.	Create	CO3
39.	Analyze the components of Integrated Disease Management (IDM) and explain how their integration leads to effective and sustainable disease control.	Analyze	CO3
40.	Evaluate the role of cultural practices in disease management and discuss how they can be integrated with other methods for improved effectiveness.	Evaluate	CO3

CO- Wise

CO	Q.No.	Marks
CO1	1-10	75
CO2	11-30	150
CO3	31-40	75
Total		300

Unit-wise

Unit	Q.No.	Marks
1	1-10	75
2	11-20	75
3	21-30	75
4	31-40	75
Total		300

BTL- wise

BTL	Q.No.	Marks
LOT	20	100
HOT	20	200
Total		300

Prepared By: Mr. Pratik Chandra Morya **Reviewed By: Dr. Neha G.A Kisku**

Disclaimer: - This is a Practice Set. The Question in End semester examination will differ from the Practice Set. This Practice Set is meant for practice only.