JHARKHAND Rai University
RANCHI

PRACTICE SET

End Semester (Vth Sem.) Examination, December – 2025

Program: B. Sc. (Hons.) Agriculture

Semester: Vth

Course: Diseases of Field and Horticultural Crops and their Management- I

Course Code: 13A.314

Course Outcomes:

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

CO1 Acquire Skill to pursue the professional programs in Company Secretaryship, Law, Business, Agriculture, International Affairs, Public Administration and Other fields

CO2 Develop procedural knowledge to Legal System and solving the problem relating to intellectual property rights

CO3 Establishment of Legal Consultancy and service provider, Employability as the Compliance Officer, Public Relation Officer and Liaison Officer

CO4 Apply Skill to understand the concept of intellectual property rights

Unit -I

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

S.N.	Question	Bloom Taxonomy	Course Outcome
1	Describe the symptoms and management of rice blast disease	Understand	CO1
2	Describe the symptoms and control of brown spot disease in rice.	Remember	CO1
3	Discuss the environmental conditions favoring rice tungro virus disease.	Understand	CO4
4	Describe the symptoms of sheath blight and false smut of rice.	Remember	CO1
5	Discuss the causal organism and management of downy mildew in pearl millet	Understand	CO1

Section-II (15 Marks questions, only higher order thinking - HOT)

S.N.	Question	Bloom Taxonomy	Course Outcome

6	Apply your knowledge of plant pathology to develop an integrated disease management plan for bacterial blight of rice under Jharkhand conditions.	Apply	CO1
7	Analyze the relationship between environmental factors and the development of blast and sheath blight in rice.	Analyze	CO4
8	Evaluate the economic impact and yield loss caused by major diseases of rice in India.	Evaluate	CO1
9	Compare and contrast the symptoms, causal organisms, and management strategies of downy mildew in maize and pearl millet.	Analyze	CO1
10	Design a flowchart showing the complete disease cycle and integrated management of sorghum anthracnose.	Create	CO1

Unit -II

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

S.N.	Question	Bloom Taxonomy	Course Outcome
11	Describe the symptoms and control measures of early and late leaf spot of groundnut.	Understand	CO2
12	State your view on bacterial spot and mosaic disease of soybean.	Remember	CO2
13	Cite your view on Cercospora leaf spot of black gram and green gram.	Remember	CO2
14	Describe the symptoms and management of Phytophthora blight in castor.	Understand	CO2
15	Discuss the environmental factors that favor black shank and root rot diseases in tobacco.	Understand	CO4

Section-II (15 Marks questions, only higher order thinking - HOT)

S.N.	Question	Bloom Taxonomy	Course Outcome
16	Apply the principles of integrated pest management to design a control strategy for groundnut leaf spot complex.	Apply	CO2
17	Analyze the interactions between host, pathogen, and environment in the occurrence of Phytophthora blight in pigeonpea.	Analyze	CO4
18	Analyze the effectiveness of cultural, chemical, and biological methods for controlling soybean diseases.	Evaluate	CO2

19	Compare the epidemiology and management of Cercospora leaf spot in black gram and anthracnose in green gram.	Analyze	CO2
20	Develop a model extension training program for farmers to manage mosaic and wilt diseases in pulse crops.	Create	CO2

Unit -III

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

S.N.	Question	Bloom Taxonomy	Course Outcome
21	Write short notes on bunchy top of banana causal agent and management.	Remember	CO3
22	Discuss the environmental conditions that influence the development of Sigatoka leaf spot in banana.	Understand	CO4
23	Summarize about papaya mosaic disease.	Remember	CO3
24	Describe the causal organism, symptoms, and control of bacterial wilt in banana.	Understand	CO4
25	Describe the symptoms and management of wilt and anthracnose in guava.	Understand	CO4

Section-II (15 Marks questions, only higher order thinking - HOT)

S.N.	Question	Bloom Taxonomy	Course Outcome
26	Apply disease forecasting principles to predict the incidence of Sigatoka and Panama wilt in banana plantations.	Apply	CO3
27	Analyze the disease cycles of bacterial wilt in banana and wilt in guava to identify critical control points.	Analyze	CO3
28	Evaluate the effectiveness of different management strategies for papaya leaf curl and mosaic diseases.	Evaluate	CO3
29	Assess the impact of climate change on the prevalence and severity of horticultural crop diseases in tropical regions.	Evaluate	CO4
30	Design a comprehensive disease surveillance and diagnostic framework for managing fruit crop diseases in a subtropical region.	Create	CO3

Unit -IV

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

S.N.	Question	Bloom Taxonomy	Course Outcome

31	Summerize about Phomopsis blight and fruit rot in brinjal.	Remember	CO3
32	Describe the symptoms and management of Alternaria leaf spot in cruciferous vegetables.	Understand	CO3
33	Discuss the management of Phytophthora blight in colocasia.	Apply	CO3
34	Write short notes on wilt and bud rot of coconut, blister blight of tea, and rust of coffee.	Remember	CO3
35	Explain the causal organism, symptoms, and control of yellow vein mosaic in okra.	Understand	CO3

Section-II (15 Marks questions, only higher order thinking - HOT)

S.N.	Question	Bloom Taxonomy	Course Outcome
36	Develop a model for sustainable disease management in plantation crops like tea, coffee, and coconut integrating cultural, biological, and chemical control methods.	Create	CO3
37	Evaluate the role of host resistance and biological control in managing Phomopsis blight and fruit rot in brinjal.	Evaluate	CO3
38	Critically analyze integrated disease management strategies for bacterial wilt and late blight in solanaceous crops.	Evaluate	CO3
39	Analyze the comparative pathology and control of wilt diseases in tomato and brinjal.	Analyze	CO3
40	Apply your understanding of disease epidemiology to manage Alternaria leaf spot and black rot in crucifers.	Apply	CO3

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Summary Sheet:

CO Wise

CO	Q. No	Marks
CO1	1,2,4,5,6,8,9,10	80
CO2	11,12,13,14,16,18,19,20	80
CO3	21,23,26,27,28,30,31,32,33,34,35	95
CO4	3,7,15,17,22,24,25,29,36,37,38,39,40	145
Total		**400**

Unit Wise

Unit	Q. No	Marks
Unit 1	1 to 10	100
Unit 2	11 to 20	100
Unit 3	21 to 30	100
Unit 4	31 to 40	100
Total		**400**

Blooms Taxonomy Level (BTL) Wise

BTL	Q. No	Marks
LOT	1,2,3,4,5,11,12,13,14,15,21,22,23,24,25,31,32,33,34,35	100
HOT	6,7.8.9.10.16,17,18,19,20,26,27,28,29,30,36,37,38,39,40	300
Total		**400**

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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.