MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION
B.Sc.(Hons.) Agriculture

Semester	: V (New)	Term	: First	Academic Year	: 2023-24
Course No.	: PATH 354	Title	: Diseases of Field and Horticultural Crops and their Management-I		
Credits	: 3 (2+1)				
Day & Date	: Monday, 11.12.2023	Time	: 14:00 to 17:00 hrs.	Total Marks	: 80

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 Describe causal organism, perpetuation, symptoms and control measures for damping-off diseases of tomato.

Q.2 Write causal organism, symptoms and management of following diseases (Any Two):

a) Bud rot of coconut b) Black rot of crucifers c) Wilt of guava

Q.3 Give important symptoms of following diseases (Any Four):

a) Downy mildew of bajra b) Wilt of pigeon pea c) Head smut of sorghum

d) Bacterial leaf blight of rice e) Early blight of tomato

Q.4 Write perpetuation for following diseases (Any Four):

a) Blast of finger millet b) Panama wilt of banana c) *Phomopsis* blight of brinjal

d) *Phytophthora* blight of colocasia e) *Alternaria* leaf spot of crucifers

Q.5 Comment on yellow vein mosaic of okra and banana bunchy top diseases on following points:

a) Causal agent b) Symptoms c) Transmission d) Control measures

Q.6 Write symptoms of the following diseases (Any Four):

a) Coffee rust b) Soft rot of ginger c) Downy mildew of maize

d) Mosaic of tobacco e) Anthracnose of beans

Q.7 Comment on the following (Any Two):

a) Causal organism, transmission and control measures of tungro disease of rice

b) Causal organism, symptoms and perpetuation of ergot of bajra

c) Symptoms, causal organism and management of grain smut of jowar

Q.8 Enlist important diseases of rice along with causal organisms. Write symptoms and management of blast disease.

(P.T.O.)

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Q.9 Write in brief integrated management strategies for the following diseases (Any Four):

a) Early blight of tomato

b) Sigatoka leaf spot of banana

c) Downy mildew of bajra

d) Tikka disease of groundnut

e) *Rhizoctonia* blight of soybean

Q.10 Write causal organism, symptoms and management of bacterial blight of pomegranate and bacterial wilt of tomato.

SECTION 'B'

Q.11 Do as directed:

1) Write the causal agent of blister blight of tea.
2) Name the toxin produced by ergot causing fungus.
3) What do you mean by heteroecious rust?
4) Name the vector responsible for transmission of pigeon pea sterility mosaic virus.
5) What is the cause of khaira disease of rice?
6) Which papaya disease is reduced by weekly spraying with 1.0 % groundnut oil?
7) State one fungal and one bacterial bioagent used for control of soil borne diseases.
8) 'V-shaped' yellowish spots on the veins and veinlets are induced in which disease of crucifers?

Q.12 State True or False:

1) Papaya ring spot virus is transmitted by *Myzus persicae.*
2) Perfect stage of anthracnose of black gram is *Glomerella lindemuthianum.*
3) 'Kresek' phase in rice occurs due to blast disease.
4) Bunchy top of banana is transmitted by leaf hoppers.
5) Moko wilt of banana is caused by *Ralstonia solanacearum.*
6) Root wilt disease of coconut is caused by phytoplasma.
7) The fungus *Puccinia vastatrix* causes coffee rust disease.
8) Tomato early blight disease is caused by *Phytophthora infestans.*

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