MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE

SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: V (New)	Term	: First	Academic Year	: 2022-23
Course No.	: PATH 354	Title	: Diseases of Field and Horticultural Crops and their Management-I		
Credits	: 3(2+1)				
Day & Date	: Friday, 03.02.2023	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 Enlist important diseases of rice. Describe symptoms and management strategies for blast disease.

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

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

Q.3 Write causal organism, symptoms and management of bacterial blight of pomegranate and bacterial wilt of tomato.

Q.4 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.5 Comment on yellow vein mosaic of okra and banana bunchy top disease on the following points:

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

Q.6 Write perpetuation for the 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.7 Write on the following (Any Two) :

a) Causal organism, transmission and control measures for 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 Describe causal organism, perpetuation, symptoms and control measures for damping-off disease of tomato.

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

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Q.10 Give important symptoms of the 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

SECTION 'B'

Q.11 Do as directed:

1) Write the causal agent of foot rot of papaya.

2) Name the toxin produced by ergot causing fungus.

3) What do you mean by autoecious rust?

4) State 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) In which disease of crucifers, 'V-shaped' yellowish spots on the veins and veinlets are induced?

Q.12 State True or False:

1) Moko wilt of banana is caused by *Ralstonia solanacearum.*

2) 'Kresek' phase in rice occurs due to blast disease.

3) Papaya Leaf Curl Virus is transmitted by *Bemisia tabaci.*

4) Tomato early blight disease is caused by *Phytophthora infestans.*

5) Perfect stage of anthracnose of black gram is *Glomerella lindemuthianum.*

6) Bunchy top banana is transmitted by leaf hoppers.

7) Root wilt disease of coconut is caused by phytoplasma.

8) The fungus *Puccinia vastatrix* causes coffee rust disease.

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