MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: VI (New)	Term	: Second	Academic Year	: 2022-23
Course No.	: H/PATH 363	Title	: Diseases of Vegetables, Ornamentals and Spice Crops		
Credits	: 3 (2+1)				
Day & Date	: Wednesday, 12.07.2023	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 potato along with their causal agent. Explain late blight disease with respect to the following points:

a) Symptoms b) Perpetuation and Spread c) Management

Q.2 a) Describe in brief about symptoms and management of early blight in tomato.

b) Describe in brief about symptoms and management of charcoal rot in vegetables.

Q.3 Enlist important diseases of cucurbits along with their causal agent. Explain downy mildew of cucurbits on the following points:

a) Symptoms b) Etiology c) Management

Q.4 a) Explain the factors responsible for post-harvest diseases of vegetables and give the management practices.

b) Write the symptoms of powdery mildew in rose and give its etiology.

Q.5 Write symptoms of the following diseases (Any Four):

a) Golden mosaic of bean b) Rhizome rot in ginger c) Little leaf of brinjal

d) Aster yellow e) *Alternaria* blight in jasmine

Q.6 Enlist important diseases of cruciferous crops along with their causal agent. Explain white rust disease with respect to the following points:

a) Symptoms b) Perpetuation and Spread c) Management

Q.7 a) Describe symptoms and management of bacterial wilt in brinjal.

b) Describe symptoms and management of common scab in potato.

Q.8 Give the symptoms of the following diseases (Any Four):

a) Rust of jasmine b) *Alternaria* blight in gerbera

c) Purple blotch in onion d) Blossom end rot of tomato

e) Chilli leaf curl

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Q.9 a) Describe symptoms and management of club root in cabbage.

b) Describe symptoms and management of mosaic in tomato.

Q.10 Give management practices for the following diseases (Any Four):

a) Yellow vein mosaic in okra

b) Bacterial blight of beans

c) *Phytophthora* blight of black pepper

d) Anthracnose of nutmeg

e) Dodder

SECTION 'B'

Q.11 Fill in the blanks:

1) Downy mildew in onion is caused by _____.

2) The fungus, *Alternaria solani* produces a toxin called _____.

3) Charcoal rot disease is caused by _____.

4) Aster yellow can be effectively suppressed by _____ antibiotic.

5) The complete root parasite found in tobacco and many solanaceous crops is _____.

6) Leaf spot in turmeric is incited by_____.

7) Powdery mildew in coriander is caused by _____.

8) Anthracnose in chilli is caused by _____.

Q.12 Match the pairs:

'A'	'B'
1) Anthracnose of cinnamon	a) *Puccinia substriata* var. *substriata*
2) Downy mildew of fenugreek	b) *Uromyces phaseoli* var. *vignae*
3) Endophytic powdery mildew	c) *Colletotrichum gloeosporioides*
4) Rust of rose	d) *Peronospora trifolium*
5) *Phomopsis vexans*	e) *Leveillula taurica*
6) Pea enation	f) *Phragmidium mucronatum*
7) Cowpea rust	g) α and β conidia
8) Brinjal rust	h) PEMV

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