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

Semester	: VI (New)	Term	: Second	Academic Year	: 2023-24
Course No.	: H/PATH 363	Title	: Diseases of Vegetables, Ornamentals and Spice Crops		
Credits	: 3 (2+1)				
Day & Date	: Thursday, 02.05.2024	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 Write the causes, symptoms, mode of spread and management of:

a) Crinkle of potato b) *Churda murda* of chilli

Q.2 Explain in detail:

a) Whiptail of cauliflower b) Little leaf of brinjal

Q.3 Enlist important diseases of tomato with their causal organisms and describe the symptoms, etiology, perpetuation and management of early bight of tomato in detail.

Q.4 Write short notes on:

a) Rhizome rot of ginger b) Smudge of onion

Q.5 Describe the symptoms of the following diseases:

a) Bacterial blight of beans b) Wilt of pea

c) Yellow vein mosaic of bhendi d) Alternaria blight of garlic

Q.6 Give the management strategy of the following diseases:

a) Powdery mildew of okra b) Pea enation

c) Leaf spot of turmeric d) Downy mildew of fenugreek

Q.7 a) Describe the symptoms, etiology, perpetuation and management of white rust of radish.

b) Explain the non-chemical management of wilt of carnation.

Q.8 Enlist important diseases of pepper with their causes and explain *Phytophthora* foot rot in detail.

Q.9 a) Suggest preventive measures for reducing post-harvest disease development in vegetable crops.

b) Describe the symptoms, etiology, perpetuation and management of stem gall of coriander.

Q.10 a) Explain downy mildew of cabbage in detail.

b) Describe with illustration the disease cycle of powdery mildew of rose.

(P.T.O.)

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SECTION 'B'

Q.11 Match the pairs:

'A'	'B'
1) Powdery mildew of chilli	a) *Trichoderma* spp.
2) Wilt of cumin	b) *Colletotrichum gloeosporioides*
3) Crown rot of geranium	c) *Trichodorus* spp.
4) Leaf spot of beetroot	d) *Phytophthora cinnamomi*
5) Pea top necrosis	e) *Fusarium oxysporum f. sp. cumini*
6) Anthracnose of clove	f) *Leveillula taurica*
7) Crossandra wilt	g) *Cercospora beticola*
8) Die back of cinnamon	h) *Sclerotinia sclerotiorum*

Q.12 State True or False:

1) Rust of jasmine is heteroecious in nature.
2) *Sclerotium rolfsii* survives in soil in the form of sclerotia.
3) Metalaxyl + Mancozeb is used against downy mildew diseases.
4) *Orobanchae* spp. are complete root parasites of vegetable crops.
5) Aster yellows is an important bacterial disease of onion.
6) Verticillium wilt of brinjal is favored by acidic soil.
7) Fruits affected by blossom end rot ripens late than normal.
8) Early sowing of cabbage increases the incidence of *Fusarium* wilt.

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