

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc. (Hons.) Horticulture

Semester	: V (New)	Term	: First	Academic Year	: 2023-24
Course No.	: H/PATH 352	Title	: Diseases of Fruit, Plantation, Medicinal and Aromatic Crops		
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 Enlist the diseases of citrus with their causes and describe gummosis of citrus in detail.
- Q.2 Describe in brief the management of:
- a) Fruit rot of custard apple
 - b) Die back of jackfruit
 - c) Leaf blotch of walnut
 - d) Heart rot of pineapple
- Q.3
- a) Describe bunchy top of banana in detail.
 - b) Describe the cause, symptoms, epidemiology and management of wilt of guava.
- Q.4 Explain in detail:
- a) Abnormal leaf fall of rubber
 - b) Flowering parasite of mango
- Q.5 Enlist important diseases of grape with their cause and describe in detail the downy mildew of grape.
- Q.6 Write symptoms and management of anthracnose of papaya and Panama wilt of banana.
- Q.7 Briefly describe the symptoms of:
- a) Oily spot of pomegranate
 - b) Mango malformation
 - c) Bacterial blight of grape
 - d) Koleroga of arecanut
- Q.8 Describe the important practices for management of post harvest diseases of fruits.
- Q.9 Enlist diseases of apple with their causes and describe symptoms, epidemiology, mode of spread and management practices for fire blight of apple.
- Q.10 Write short notes on (Any Four):
- a) Leaf spot of senna
 - b) Damping off of hemp
 - c) Root rot of belladonna
 - d) Powdery mildew of ber
 - e) Downy mildew of opium

(P.T.O.)

SECTION 'B'

Q.11 Do as directed:

- 1) Name one fungal bioagent for management of foot rot of betelvine.
- 2) Name one host fruit crop of *Colletotrichum gloeosporioides*.
- 3) Give the cause of leaf curl of peach.
- 4) Name one fungi causing fruit rot in jackfruit.
- 5) Mention one practice for management of wilt of pineapple.
- 6) Justify the name of the disease: Citrus greening.
- 7) Mention one mode of spread of heart rot of banana.
- 8) Name the vector responsible for leaf curl of papaya.

Q.12 Fill in the blanks:

- 1) *Xanthomonas axonopodis* pv. *citri* is Gram _____ bacteria.
- 2) Wilt of guava is favoured by _____ soil.
- 3) Soft rot of papaya is caused by _____.
- 4) Application of nematicides in grapes reduces the spread of _____ disease.
- 5) Cadang cadang disease of coconut is caused due to _____.
- 6) *Cephaleuros virescens* causes _____ disease in mango.
- 7) Mis-shaped and crack fruits in grapes is a symptom of _____ disease.
- 8) Bacterial blight of neem is caused by _____.

