

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: V (New)	Term	: First	Academic Year	: 2022-23
Course No.	: H/PATH 352	Title	: Diseases of Fruit, Plantation, Medicinal and Aromatic Crops		
Credits	: 3(2+1)				
Day & Date	: Monday, 06.02.2023	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 a) Enlist major diseases of mango along with causal organisms. Write in short symptoms of mango malformation.
- b) Explain in detail symptoms and management practices for anthracnose disease of mango.
- Q.2 a) Enlist important diseases of banana along with pathogens responsible. Write in short symptoms of panama wilt of banana.
- b) Write in brief about sigatoka disease of banana pertaining to symptoms, mode of pathogen survival and spread, epidemiology and management practices followed.
- Q.3 a) Write in detail about symptoms and mode of spread of ring spot disease of papaya.
- b) Describe symptoms and mode of spread and survival of pathogen causing anthracnose disease in guava.
- Q.4 a) Write in detail about downy mildew disease of grape in regard to symptoms and etiology.
- b) Write in brief about gummosis disease of citrus with respect to symptoms, pathogen favourable conditions and management practices.
- Q.5 a) Write short notes on:
- (i) Stem bleeding of coconut (ii) Giant mistletoe
- b) Write in brief about causal organism, symptoms, survival and spread of pathogen and management practices pertaining to bacterial blight of pomegranate.
- Q.6 a) Briefly explain symptoms, mode of spread of the pathogen, epidemiology and management of coconut bud rot.
- b) Write causal organisms and symptoms of fruit rot of jackfruit.
- Q.7 a) Explain in brief symptoms and management of phytophthora wilt disease of betelvine.
- b) Explain in detail symptoms and disease cycle of scab of apple.

(P.T.O.)

- Q.8 a) Enlist major diseases of grapes along with causal organisms. Explain in brief symptoms of anthracnose disease of grape.
- b) Enlist important diseases of citrus along with causal organisms. Explain in detail symptoms and control measures for citrus canker disease.
- Q.9 a) Write briefly about powdery mildew of ber in respect to symptoms, survival and spread of the pathogen, favourable conditions and its management.
- b) Explain in brief about symptoms and etiology of the pathogen of coffee rust disease.
- Q.10 a) Write primary and secondary sources of infection of the following diseases:
- (i) Powdery mildew of papaya (ii) Citrus anthracnose
- b) Write in detail symptoms and management practices for strawberry leaf spots.

SECTION 'B'

Q.11 Fill in the blanks:

- 1) _____ causes Moko wilt disease in banana.
- 2) _____ is the primary source of infection in powdery mildew of grape.
- 3) Bark eruption and pitting on stem are the symptoms of _____ disease of citrus.
- 4) Pineapple wilt is caused by _____.
- 5) Rust of aonla is caused by _____.
- 6) Leaf spot of sapota is caused by _____.
- 7) Root rot disease of pyrethrum is caused by _____.
- 8) Koleroga disease of arecanut is caused by _____.

Q.12 Match the pairs:

- | 'A' | 'B' |
|------------------------------|-----------------------------------|
| 1) <i>Colletotrichum</i> | a) Powdery mildew of camphor |
| 2) Powdery mildew | b) Macroconidia and microconidia |
| 3) Ascospores | c) <i>Erwinia amylovora</i> |
| 4) Downy mildew | d) <i>Glomerella</i> |
| 5) <i>Fusarium</i> | e) Barrel shaped conidia in chain |
| 6) Fire blight | f) Cleistothecium |
| 7) Cadang-cadang | g) Obligate parasite |
| 8) <i>Erysiphe cinnamomi</i> | h) Coconut |

