

B.Sc. (Ag.) Honours Semester-V Examination, 2018

Course No: PPC-311

(Diseases of Horticultural Crops and their Management)

Signature of Centre Superintendent

Roll No. : (in figure) _____ (in words) _____

Student Index No. _____ Regn. No. _____ of _____

Time : 2 Hours

Full marks : 40

Questions are of value as indicated in the margin

Part - I

(Objective and Short Answer Type)

(Use only ball point pen)

Time : 20 minutes

Full marks : 10

- Note:** 1. Answer in question paper itself.
2. Striking, rewriting or overwriting are not allowed in the objective type questions.

1. **State True (T) or False (F) in respect of the following statements (any four):** 0.5×4=2
- (a) Yellow vein mosaic disease of okra is transmitted by whitefly.
- (b) *Phomopsis vexans* causes little leaf in brinjal.
- (c) Banana bunchy top virus is transmitted by *Aphis craccivora*.
- (d) Metalaxyl+Mancozeb is very effective against disease caused by *Pythium sp.*
- (e) *Phytophthora infestans* causes stem and foot rot of betelvine.
- (f) *Venturia inaequalis* produces ascospores in sufficient moisture.
2. **Fill in the blanks (any five):** 1×5=5
- (a) Red rust of Mango is caused by _____ and ripe fruit rot of chilli is caused due to infection of _____.
- (b) *Alternaria solani* causes _____ disease and can survive in soil as _____.
- (c) Bean common mosaic virus is transmitted by _____ and _____.
- (d) Downy mildew of cucurbit caused by _____ & Potato leaf roll disease is transmitted by _____.
- (e) Anthracnose of guava is caused by _____ and _____ disease of banana is controlled by flooding the field with water.
- (f) Name of fungus associated with mango malformation is _____ and black tip of mango is resulted due to _____.
- (g) Typical large yellow zones are seen in _____ disease of betel vine and black spot of rose is caused by _____.
3. **Answer in brief (any three):** 1×3=3
- (a) Management of citrus canker

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(2)

(b) Chemical seed treatment

(c) Management of stem bleeding of coconut

(d) Leaf curl disease of papaya

(e) Bud rot management in marigold

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Part - II
(Descriptive Type)

Time : 100 minutes

Full marks : 30

Questions are of value as indicated in the margin

Answer *any four* questions.

4. Describe the causal organism, symptoms, epidemiological factors and management of bacterial wilt of banana. 1+2+2+2.5=7.5
 5. Discuss the causal organism, symptoms, epidemiological factors and management of apple scab disease. 1+2+2+2.5=7.5
 6. What are different fungal and bacterial diseases of potato? Give details of causal organism, symptoms, disease cycle and management of late blight of potato. 1+1+2+1.5+2=7.5
 7. Write down different genera causing powdery mildew disease. Differentiate between powdery mildew and downy mildew symptoms. Describe disease cycle and management of powdery mildew disease of cucurbits. 1+2+2+2.5=7.5
 8. Answer in brief (*any three*) 2.5×3=7.5
 - (a) Downy mildew of grapevine
 - (b) Leaf curl disease of chilli
 - (c) Red rust of tea
 - (d) Micronutrient deficiency in crucifers
 - (e) Damping off vegetables
 9. Answer in brief (*any five*) 1.5×5=7.5
 - (a) *Alternaria* leaf spot of onion
 - (b) Phomopsis blight of brinjal
 - (c) Foot rot of papaya
 - (d) Coffee rust
 - (e) Leaf spot of turmeric
 - (f) Coconut root wilt
 - (g) Guava wilt management
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