

Diseases of Fruit, Plantation, Medicinal and Aromatic
Crops

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2015 Model Paper

1 Diseases of fruits, plantation + MAP Coops

PART-I (Objective)

1. Choose the correct/appropriate answer: (0.5X 10 =5)
- 1) Silvering of foliage appears soon after petal fall is the typical symptoms of-
(a) Nail head canker (b) Leaf canker (c) Pink canker (d) Fruit spot
 - 2) Blister blight of tea is caused by-
(a) *Erysiphe polygoni* (b) *E. cichoracearum* (c) *Exobasidium vaxans* (d) *Oldium spp.*
 - 3) Dieback symptom is generally produced by-
(a) Apple canker (b) Powdery mildew (c) Apple scab (d) Anthraenose
 - 4) Causal organism for citrus canker disease is-
(a) *Xanthomonas campestris* (b) *X. campestris pv. citri* (c) *X. malvacearum* (d) All
 - 5) Melanose disease of citrus is caused by-
(a) *Phomopsis citri* (b) *Botrytis cinerea* (c) *Geotrichum candidum* (d) *Phytophthora*
 - 6) Crown gall of apple is caused by-
(a) *Agrobacterim tumefaciens* (b) *Erwinia amylovora* (c) *A. rhizogene* (d) *Dematophora necatrix*
 - 7) Citrus gummosis is caused by-
(a) *Phytophthora citrophthora* (b) *P. infestans* (c) *P. carotovora* (d) *P. psidii*
 - 8) *Fusarium oxysporum f.sp. cubens* is the causal organism for-
(a) Panama wilt (b) Moko wilt (c) Anthraenose (d) Chlorosis
 - 9) Spherical to V shaped lesion is formed in-
(a) Smoky blight canker (b) Pink canker (c) Nail head canker (d) Silver leaf canker
 10. Element which provide resistance to plant against pathogen-
(a) Nitrogen (b) Potassium (c) Sulphur (d) Zinc
- PTO
2. Fill in the blanks with most appropriate words: (0.5X 10 =5)
- 1) Apple scab is first noticed on..... variety of apple trees invalley.
 - 2) *Ampelomyces quisqualis* is effective against.....
 - 3) The alternate and main host for the *Gymnosporangium juniper virginianae* and..... respectively.
 - 4) is the fruiting body for powdery mildew fungi.
 - 5) Citrus scab is also known as.....and caused by.....
 - 6) is a viral disease of apple.

- 7) disease result in Shepherd's Crook symptom.
 8) is the imperfect stage for *Venturia inaequalis*.
 9) Bunchy top of banana is transmitted by
 10) *Corticium solani* is responsible for causing disease of Datura.

3. State whether the following statements True/False: (0.5 x 10 = 5)

- 1) The PSI for apple scab is zoospore of pseudothecium.
- 2) Apple Dapple / Apple Scar Skin is a viroid disease.
- 3) *Toxoptera citricida* is the vector for citrus greening disease.
- 4) Citrus Tristeza is a viral disease.
- 5) Citrus exocortis is caused by MLO'S.
- 6) Foot rot of citrus is a soil borne disease.
- 7) Wettable sulphur is effective against powdery mildew disease.
- 8) 1 % starch spray is effective against sooty mould diseases.
- 9) Panama wilt of banana disease occurs at soil temperature 28-32°C and RH- 85-90 %.
- 10) Streptomycin and *Pseudomonas fluorescens* are effective against Moko wilt disease.

4. Match the following: (0.5 x 10 = 5)

1. Powdery Mildew Apple	A. <i>Verticillium theobromae</i>	
2. Hemp Phyllody	B. <i>Diaphornia citri</i>	
3. Mint Rust	C. <i>Helminthosporium heveae</i>	
4. Citrus Greening	D. <i>X. axonopodis</i> pv. <i>punicae</i>	
5. Fire Blight of Pear	E. <i>Botrytis cinerea</i>	
6. Grey Mould Rot	F. <i>Geotrichum candidum</i>	
7. Cigar End Rot of banana	G. <i>Erwinia amylovora</i>	
8. Bacterial blight of Pomegranate	H. <i>Podosphearea leucotricha</i>	
9. Bird's eye spot of rubber	I. <i>Puccinia menthae</i>	
10. Sour Rot Citrus	J. Phytoplasma	

PART-II (Subjective)

5. Write down the causal organism, symptoms and method of control of the following (2X4=8)
 (Attempt any four)

1) Fire blight of apple	2) Cedar apple rust
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3)	Citrus greening	4)	Moko wilt of banana
5)	Bunchy top of banana	6)	Stem bleeding of coconut
7)	Mango malformation	8)	Anthraxnose of mango

6. Write short notes (Attempt any Six)

(2x6=12)

1)	Citrus canker	2)	Apple scab
3)	Citrus tristeza	4)	Thanjavur wilt of coconut
5)	Cadang cadang disease of coconut	6)	Peach leaf curl
7)	Guava wilt	8)	Papaya ring spot virus
9)	Mahali disease of arecanut	10)	Premature leaf fall of apple

7. With the help of well labeled diagram explain the disease cycle of the followings
(Attempt any Two)

(5x2=10)

1)	Panama wilt of banana	2)	Powdery mildew of grapes
3)	Downy mildew of grapes	4)	Leaf rust of coffee
5)	Foot rot of papaya		

- ≠ Red Stele disease of Strawberry
- ≠ Root rot and other diseases of Stone fruits
- ≠ Geranium wilt
- ≠ Mint Rust and Root rot and other diseases.
- ≠ Fire blight of Apple and Pear
- ≠ Crown gall disease of Apple and Pear