

M.Sc.(Ag.) Semester – III Examination, 2014

Plant Protection

Course : PPC – 506 (Diseases of Horticultural Crops and Their Management)

Time: 3 Hours

Full Marks: 50

Questions are of value as indicated in the margin

Answer **any five** questions

1. Prepare two separate lists of animate diseases of any one 'tropical and sub-tropical' and 'temperate' fruit crops with their causal organism(s). Write important inanimate diseases of any one 'tropical and sub-tropical' fruits with their causes and management in brief. 1+(3+3)+(1.5+1.5)=10
2. Explain the importance of studying market and storage diseases of horticultural crops. Make a list of postharvest diseases of fruits and vegetables with their cause(s). Write briefly about any one of the postharvest diseases of fruits. 2+5+3=10
3. Prepare a list of diseases of tea with their causal agent(s). Write about an important disease of tea. "Application of chemical pesticides in tea required much more attention" – explain the statement. 2+7+1=10
4. Discuss on stem bleeding and Ganoderma wilt of coconut. 5+5=10

or

Write shot notes of the following (**any two**): 5×2=10

- (a) Angiospermic plant parasite in fruit crops.
 - (b) Disease(s) of sacred basil.
 - (c) Rhizome rot of ginger
 - (d) Two foliar diseases of mulberry
5. Mention the diseases caused by phytoplasma, at least one each from vegetables and fruit crops. Write briefly the important symptoms, transmission, epidemiology and management of an important phytoplasmal disease of vegetable. 1+9=10

or

"Virus is one of the major constrains for vegetables production in India" – give your comments on the statement with suitable examples. Mention some management strategies for controlling of virus diseases of vegetables. 7+3=10

6. Answer briefly the following questions (**any four**): 2.5×4=10
- (a) Cause and symptoms of soft rot of cole crops.
 - (b) Cause and management of 'leaf curl complex' of chilli.
 - (c) Diseases of '*Aloe vera*' and their causes.
 - (d) Crown gall disease of marigold.
 - (e) Root knot of okra.

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7. Prepare a list of abiotic diseases of vegetables and briefly discuss their cause, symptoms and management. 2+8=10
8. Differentiate between the following (*any four*) in terms of symptoms and aetiology. 2.5×4=10
- (a) Bacterial wilt and fungal wilt of brinjal.
 - (b) *Taphrina* leaf spot and leaf blight of turmeric.
 - (c) Downy mildew and powdery mildew of cucurbitaceous vegetables.
 - (d) Early and late blight of potato.
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