

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

Plant Protection

Course : PPC – 504 (Plant Virology)

Time: 3 Hours

Full Marks: 50

Questions are of value as indicated in the margin

Answer **any five** questions

1. Define virus. Discuss about the origin of plant viruses. Write a brief history about the development of plant virology. 2+3+5=10
 2. Write briefly about the architecture of plant viruses with suitable examples. 10
 3. Explain plant virus transmission. Write briefly about the plant virus transmission by insects. 2+8=10
 4. Write a brief note on short distance and long distance movement of plant viruses within the host body. 10
 5. Discuss different methods of plant virus disease management. 10
 6. Write brief notes on the replication of ssRNA and ssDNA viruses. 5+5=10
 7. What do you mean by virus-vector relationship? Differentiate among nonpersistent, semipersistent and persistent type of virus transmission by vectors. Explain dependent transmission of plant viruses with examples. 2+5+3=10
 8. Write short notes on : (**any four**) 2.5×4=10
 - (i) Viroids
 - (ii) Bacteriophages
 - (iii) Bi-modal transmission
 - (iv) Isolation of plant viruses
 - (v) Nomenclature of plant viruses
 - (vi) Satellite virus and satellite RNAs
 - (vii) Mycoviruses
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