

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

Plant Protection

Course : NEM – 501 (Plant Nematology)

Time: 3 Hours

Full Marks: 50

Questions are of value as indicated in the margin

Answer **any five** questions

1. Write a brief essay on history, importance and scope of plant nematology with special reference to West Bengal. 10
2. State the taxonomically diagnostic parts of the morphology of a plant parasitic nematode. 10
3. Describe the digestive or reproductive systems in plant parasitic nematodes. 10
4. Describe life cycle pattern and phases in *Meloidogyne*. 10
5. Distinguish between: 2.5×4=10
 - (a) *Dorylaimida* and *Tylenchida*
 - (b) *Aphelenchidae* and *Pratylenchidae*
 - (c) Development of Root gall and Cyst
 - (d) *Xiphinema* and *Anguina*
6. Describe adaptation of a plant pathogenic nematode. 10
7. Describe infection behaviours and plant disease development patterns in different host nematode parasitic systems.

or

Give a brief outline of conventional and non-conventional management methods exclusively used by plant nematologists. 10

8. Write short notes (**Any two**) 5+5=10
 - (a) Quiescence
 - (b) Parthenogenesis
 - (c) Senescence
 - (d) Anabiosis
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