

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

Plant Protection

Course : PPC – 502 (Mycology and Fungal Physiology)

Time: 3 Hours

Full Marks: 50

Questions are of value as indicated in the margin

Answer **any five** questions

1. Write significant events in the history of Mycology. Write contributions of Drs. K.C. Mehta, B.B. Mundkur, J.F. Dastur and M.J. Narasimhan. 5+5=10
 2.
 - a) Describe the role of fungi in human affairs.
 - b) Explain mycotoxicoses with examples. 5+5=10
 3.
 - a) How fungi and fungi like organisms can be differentiated?
 - b) Elaborate modern approaches of fungal classification. 3+7=10
 4.
 - a) Explain ascospore production in an ascus.
 - b) Differentiate between *Aspergillus* and *Penicillium*. 7+3=10
 5. Write taxonomic position and synoptic characters of following genera-*Uncinula*, *Sclerospora*, *Rhizopus*, *Alternaria* and *Ustilago*. 2×5=10
 6. Describe the life cycle pattern with well labelled diagrammes of any one genus – *Phytophthora* and *Puccinia*. 10
 7.
 - a) Write briefly on predacious and hyperparasitic fungi.
 - b) Write briefly on the factors responsible for growth of fungi. 5+5=10
 8. Write short notes on (**any four**): 2.5×5=10
 - a) Fossil fungi
 - b) Aerobiology
 - c) Lichen
 - d) Edible fungi
 - e) Alcohol production
 - f) Soil fungi
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