

DIVERSITY OF MICROBES AND CRYPTOGRAMS-I
Semester – I

Time Allowed : Three Hours]

[Maximum Marks : 70

Note : The candidates are required to attempt two questions each from Section A and B carrying 12 marks each and the entire Section C consisting of 11 short answer type questions carrying 2 marks each.

- Section : A**
1. Give detailed account on reproduction of Viruses. 12
 2. Describe life cycle of *Ustilago*. 12
 3. Write a detailed account on the life cycle of *Batrachospermum*. 12
 4. Explain : 6+6=12
 - (a) Peziza Cup
 - (b) Colvox Coenobium.
- Section : B**
5. Describe structure and reproduction in *Marchantia*. 12
 6. Explain with the help of well labelled diagram the sporophyte of *Anthoceros*. 12
 7. Write a note on : 6+6=12
 - (a) *Rhyni*
 - (b) *Marsilea* sporocarp.
 8. Give a detailed account on structure and reproduction of *Pteris*. 12
- Section : C**
9. Attempt all parts in short : 11×2=22
 - (a) Differentiate cyanobacteria from bacteria.
 - (b) Define Mycoplasma.
 - (c) What are the differences between Basidiocarp and Ascocarp?
 - (d) Name the type of pigments present in Chlorophyceae.
 - (e) Define Stephanokont Zoospore.
 - (f) Give two examples of nitrogen fixing cyanobacteria.
 - (g) Explain cell division in *Oedogonium*.
 - (h) Define Prothallus.
 - (i) Explain *Equisetum* cone.
 - (j) What do you mean by Dictyostele ?
 - (k) Name the diseases caused by *Cercospora*.