



**DPA – 510 (BOT)**

**M.Sc. (Previous) Degree Examination, August/September 2010**

**Directorate of Distance Education**

**BOTANY (Freshers)**

**Paper – I : Biology and Diversity of Algae, Fungi, Bryophytes, Pteridophytes  
and Gymnosperms**

Time : 3 Hours

Max. Marks : 85

I. Answer any **SEVEN** of the following: **7×4=28**

- 1) Morphological features of Lycopsidea
- 2) Evolutionary significance of Cycadales
- 3) Life cycle of Ulva
- 4) Morphology of Sargassum
- 5) Angiospermic features of Gnetum
- 6) Salient features of Basidiomycetes
- 7) Coenobium of Volvox
- 8) Sporangia of Pteropsida
- 9) Vegetative reproduction in Bryophytes
- 10) Sporophylls of Cycas

II. Answer any **THREE** of the following: **3×9=27**

- 11) Origin of land plants
- 12) Sex organs of Vaucheria
- 13) Economic importance of Lichens
- 14) Fruiting bodies of Ascomycetes
- 15) Reproduction in Polysiphonia
- 16) Classification of Gymnosperms

III. Answer any **TWO** of the following: **2×15=30**

- 17) Explain alternation of generations in algae with suitable examples.
- 18) Enumerate the general characteristics of fungi. Add a note on their economic importance.
- 19) Compare the morphological and reproductive features of Marchantia and Anthoceros.
- 20) Explain heterospory and seed habit. Add a note on their evolutionary significance.

**P.T.O.**