

First Year B.Sc., Degree Examination
August/September 2010
DIRECTORATE OF CORRESPONDENCE COURSE
BOTANY (Freshers)

**Paper - I: PROTOPHYTA, THALLOPHYTA,
BRYOPHYTA AND PTERIDOPHYTA**

Time: 3 hrs]

[Max.Marks: 85

Note:

1. Answer all questions.
2. Draw diagrams wherever necessary.

I. Simple answer question. Answer in a word, Phrase or sentence: 10 X 1 = 10 Marks

1. Name the organism. Which causes citrus canker?
2. Which fungus produces cleistothecium?
3. What is Stele?
4. Name the bryophyte having discoid chloroplast.
5. What are Ascolichen?
6. Define Holocarpy.
7. What are Akinetes?
8. What is bacteriophage?
9. Name the alga which produces Gonimoblast filament.
10. Give an example for symbiotic association.

II. Short answer question. Answer any FIVE of the following: 5 X 3 = 15 Marks

11. Describe the structure of Spirulina.
12. Classify the lichen on the basis of thallus.
13. Mention living characters of virus.
14. Classify the Bacteria on the basis of shape.
15. Describe the structure of Batrchospermum thallus.

16. Explain T.S. of Anthoceros thallus.
17. Describe the structure of sporangiophore of Rhizopus.

III. Medium answer question. Answer any FIVE of the following: 5 X 6 = 30 Marks

18. Describe the ultrastructure of Bacteria.
19. Explain Peziza Apothecium.
20. Which Alga is known as pond silk? Describe the plant body of pond silk.
21. Describe the leaf arrangement of porella.
22. Explain prothallus of Pteris.
23. Explain the life cycle of puccinia graminis on primary host.

IV. Long Answer questions. Answer any THREE of the following. 3 X 10 = 30 Marks

24. Describe V/s of Funaria.
25. Explain different types of stele in pteridophyta.
26. Describe sexual reproduction in chara.
27. Explain: (a) T.S. of selaginella cone.
(b) Asexual reproduction in penicillium.
