

**First Year B.Sc., Degree Examinations****August/September 2011****Directorate of Distance Education****BOTANY****Paper I : Protophyta, Thallophyta, Bryophyta and Pteridophyta**

Time: 3 hrs.]

[Max.Marks:75/85

**Instructions to the Candidates :**

1. Students who have attended 25 Marks IA Scheme will have to answer for total of 75 Marks.
2. Students who have attended 15 Marks IA Scheme will have to answer for total of 85 Marks
3. One Mark questions should be answered in first two pages of the answer book.
4. Draw neat labelled diagrams wherever necessary.
5. Question No. V is compulsory for 85 marks scheme.

**I. Simple answer questions :****1 X 10 = 10Marks***Answer in a word, or a phrase or a sentence.*

1. Write the common name of Sargassum
2. Name the male sex organ of Chara.
3. What is glomerule ?
4. Define Coliphage.
5. Which fungus shows Columella ?
6. What is transduction ?
7. What is meant by Phycobiont ?
8. Define heterospory.
9. What are Bryophytes ?
10. Define siphonostele.

**II. Short Answer Questions.***Write any FIVE of the following.***5X 3 = 15Marks**

11. Write a note on common Bean mosaic virus.
12. Describe the types of Bacteria on the basis of shape.
13. Write a note on economic importance of spirulina.
14. With neat labelled diagram explain the morphology of Peziza.

**Contd...2**

15. Write any 3 economic importance of Lichens.
16. What in Rhizophore ? Explain.
17. Draw a neat labelled diagram of T.S. of Anthoceros thallus.

**III. Medium answer questions.**

*Answer any FIVE of the following.*

**5X6= 30Marks**

18. With neat labelled diagram explain the structure of TMV.
19. Explain Equisetum stem T.S. With labelled diagram.
20. Write a note on Cercospora.
21. Draw a neat labelled diagram of Sporophyte of Funaria.
22. Explain the internal structure of T.S. of Lichen Thallus.
23. Explain the structure of sex organs of Chara.

**IV. Long answer questions :**

**2X10=20 Marks**

*Answer any TWO of the following.*

24. Explain sexual reproduction in Rhizopus.
25. With neat labelled diagram explain the T.S of Rhizome of Psilotum.
26. Explain post fertilization changes in Batrachospermum.
27. Describe sexual reproduction in Porella.

**V. Compulsory Questions for 85 marks scheme only:**

**1X10=10 Marks**

*Answer any ONE of the following questions.*

28. Explain sexual reproduction in Penicillium.
29. Explain sexual reproduction in Sargassum

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