

First Year B.Sc., Degree Examinations

September/October 2015

(Directorate of Distance Education)

BOTANY

DSA 290: Paper I : Protophyta, Thallophyta Bryophyta and Pteridophyta

Time: 3 hrs.]

[Max.Marks:75/85

- Instructions :
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 to 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.

Answer in a word, or a phrase or a sentence.

10X1=10

1. What are chemosynthetic Bacteria ?
2. Give the common name of *Equisetum*.
3. Name the genetic material in plant viruses.
4. What is cleistothecium ?
5. What is the function of Elaters in *Marchantia* ?
6. Mention the characteristic pigment of Cyanophyceae.
7. What is Protostele ?
8. What is transduction?
9. Name the algae producing amyllum stars?
10. What is alternation of generation?

II. Short answer questions.

Answer any FIVE of the following.

5X3=15

11. Write the different properties of Viruses.
12. Explain asexual reproduction in *Cercospora*.
13. Describe cystocarp of *Batrachospermum*.

Contd...2

14. Explain conjugation in Bacteria.
15. Draw neat labelled diagram of apothecium of *Peziza*.
16. Explain plant body of *Porella*.
17. Describe sporangia of *Pteris*.

III. Medium answer questions.

Answer any FIVE of the following.

5X6=30

18. Explain the structure of Sporophyte of *Funaria*.
19. Explain lateral conjugation in *Spirogyra*.
20. Mention the beneficial activities of Bacteria.
21. With neat labelled diagram explain the structure of globule of *Chara*.
22. Explain asexual reproduction in *Rhizopus*.
23. Explain morphology of *Equisetum* with neat labelled diagram.

IV. Long answer questions.

Answer any TWO of the following.

2X10=20

24. Describe asexual reproduction in *Penicillium*. Add a note on its economic importance.
25. Describe the fruiting bodies of *Lichens* with neat labelled diagram.
26. Explain the different spore stages of *Puccinia* on wheat plant.
27. Describe sexual reproduction in *Anthoceros*.

V. Compulsory question for 85 Marks scheme only.

Answer any ONE of the following.

1X10=10

28. Explain sexual reproduction in *Sargassum*.
29. Describe the general characters of *Bryophyta*.

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