

Q.P. Code – 50624

First Year B.Sc. Degree Examination

OCTOBER/NOVEMBER 2014

(Directorate of Distance Education)

Botany

**(DSA 290) Paper I – PROTOPHYTA, THALLOPHYTA, BRYOPHYTA
AND PTERIDOPHYTA**

Time : 3 Hours]

[Max. Marks : 75/85

Instructions to Candidates :

- 1) *Students who have attended 25 marks I-A scheme will have to answer for total of 75 marks.*
- 2) *Students who have attended 15 marks I-A scheme will have to answer for total of 85 marks.*
- 3) *1 mark questions should be answered in first two pages of 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 phrase or sentence :

10 × 1 = 10

1. What is a capsid?
2. Where do you find carinal canal?
3. What is apothecium?
4. What are akinetes?
5. What is heteroecious fungus?
6. Define dictyostele.
7. What is fission?
8. Name the pigments present in phaeophyceae.
9. Define synangium.
10. What is amphigastria?

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II. Short Answer Questions :

Write any **FIVE** of the following :

5 × 3 = 15

11. Explain the structure of spirulina.
12. Draw a neat labelled diagram of bacteriophage.
13. Explain lateral conjugation in spirogyra.
14. Explain the morphology of penicillium.
15. Describe prothallus in pteris.
16. Explain the antheridial branch in funaria.
17. Explain the asexual reproduction in peziza.

III. Medium Answer Questions :

Answer any **FIVE** of the following :

5 × 6 = 30

18. Explain transduction in bacteria.
19. Explain T-S of stem in selaginella with a labelled diagram.
20. Write a note on cercospora.
21. Explain sexual reproduction in porella.
22. Explain different types of lichens based on their morphology.
23. Explain male conceptacle of sargassum with a labelled diagram.

IV. Long Answer Questions :

Answer any **TWO** of the following :

2 × 10 = 20

24. Explain the life cycle of puccinia on barberry leaf.
25. Explain the general characters of pteridophyta.
26. Explain sexual reproduction in batrachospermum.
27. Describe L-S of sporophyte in anthoceros.

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

Answer any **ONE** of the following :

1 × 10 = 10

28. Explain sexual reproduction in Rhizopus.
29. Explain sexual reproduction in chara.