

Q.P. Code – 50624

First Year B.Sc. Degree Examination

SEPTEMBER/OCTOBER 2013

(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 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 **only**.

I. Simple Answer Questions :

Answer in a word or a phrase or a sentence :

10 × 1 = 10

1. Define fungi.
2. What is coliphage?
3. Write the common name of chara.
4. What are Akiniets?
5. What is Amphigastria?
6. Define Binary fusion.

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7. Name the spore bearing organ of Psilotum.
8. What is Mycobiont?
9. Define heterospory.
10. Which fungus is known as cup fungi?

II. Short Answer Questions :

Write any **FIVE** of the following :

5 × 3 = 15

11. Write a note on the economic importance of bacteria.
12. Draw a neat labelled diagram of Bacteriophage.
13. Write a note on leaf curl of tomato.
14. Explain the thallus of Peziza.
15. Describe the structure of Globule.
16. Explain the T.S. of Anthoceros thallus.
17. Write a note on seed habit.

III. Medium Answer Questions :

Answer any **FIVE** of the following :

5 × 6 = 30

18. Explain T.S. of Lichen thallus with neat labelled diagram.
19. Describe the process of transduction in Bacteria.
20. Explain Lateral Conjugation in Spirogyra.
21. Describe the structure of mature gametophyte of Porella.
22. With neat labelled diagram explain T.S. of stem of Equisetum.
23. Explain the structure of Nostoc thallus, with neat labelled diagram.

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IV. Long Answer Questions :

Answer any **TWO** of the following :

2 × 10 = 20

24. Describe sexual reproduction in Sargassum.
25. Explain asexual reproduction in Rhizopus.
26. With neat labelled diagram explain the L/S of sporophyte of Funaria.
27. Explain the internal structure of selaginella stem.

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

Answer any **ONE** of the following :

1 × 10 = 10

28. Explain Stealar evolution in pteridophytes.
 29. Describe sexual reproduction in penicillium.
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