

Q.P. Code – 50624

First Year B.Sc. Degree Examination, OCTOBER/NOVEMBER 2016

(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) *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 :

10 × 1 = 10

Answer in a word or phrase or a sentence :

1. What are capsid?
2. Which algae having incipient nucleus?
3. Name the organism causes Tikka disease.
4. Name fruiting body of Peziza.
5. Define Stele.
6. Which group known as Amphibian of plant kingdom?
7. Name the origin of Calyptra in porella sporophyte.
8. Which is rootless pteridophyta?
9. What are autotrophic bacteria?
10. What are bacteriophage?

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II. Short Answer Questions :

5 × 3 = 15

Answer any **FIVE** of the following :

11. Mention living and non-living characters of virus.
12. Explain the gametophyte of Porella.
13. Describe the structure of Batrachospermum.
14. Discuss the Lichen Thallus T.S.
15. Name the casual organism, symptom and remedies of Koleroga of Arecanut.
16. Explain the selaginella stem T.S.
17. Classify the bacteria on the basis of shape.

III. Medium Answer Questions :

5 × 6 = 30

Answer any **FIVE** of the following :

18. Explain sexual reproduction in Bacteria (conjugation).
19. Describe Asexual reproduction in penicillium.
20. Discuss the male and female conceptacle of Sargassum.
21. Differentiate the Lichen and Peziza Apothecium.
22. Discuss the general characters of Bryophytes.
23. Describe the L.S. of Lycopodium cone.

IV. Long Answer Questions :

2 × 10 = 20

Answer any **TWO** of the following :

24. Discuss different types of stele in pteridophytes.
25. Describe the sporophyte L.S. of Anthoceros.
26. Explain sexual reproduction and post fertilized nature in Batrachospermum.
27. Explain sexual reproduction in Rhizopus.

V. Compulsory Question for 85 marks scheme only :

1 × 10 = 10

Answer any **ONE** of the following :

28. Discuss the general characters of Algae.
29. Describe HLS and VLS of Marsilea sporocarp.