

First Year B.Sc., Degree Examinations

December 2017

(Directorate of Distance Education)

BOTANY

DSA290: Paper I: Protophyta, Thallophyta, Bryophyta and Pteridophyta

Time: 3 hrs.]

[Max.Marks:75/85

Instruction 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 diagram wherever necessary.*
- 5. Q.No. V is compulsory for 85 marks scheme.*

I. *Simple answer questions :*

10 X 1= 10 Marks

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

- 1. What are viruses?**
- 2. Which group of plant is called Amphibians of plant kingdom ?**
- 3. What is thallus ?**
- 4. Name the smallest bacteria ?**
- 5. What is Apothecium ?**
- 6. What is imperfect fungi ?**
- 7. Define Lichens.**
- 8. Which group of plants is called as vascular cryptogams?**
- 9. What is stele ?**
- 10. Name the single cell protein producing algae.**

II. *Short answer questions :*

Answer any FIVE of the following.

5X 3= 15 Marks

- 11. Explain different types of Asexual reproduction in Bacteria.**
- 12. Explain the structure of Bacteriophage.**
- 13. Explain the different types of Lichens.**

Contd...2

14. Explain sex organs of penicillium.
15. Write the morphological character of Sargassum.
16. Explain structure of mature sporophyte of Marchantia.
17. Explain L.S. of Equisitum cone.

III. Medium answer questions :

Answer any FIVE of the following.

5X6= 30 Marks

18. Write the economic importance of bacteria.
19. List out living and non living characters of virus.
20. Explain the internal structure of selaginella stem.
21. Write the general characters of algae.
22. Explain sexual reproduction of Rhizopus.
23. Describe V.S. of Anthocros Thallus.

IV. Long answer questions :

2X10=20 Marks

Answer any TWO of the following.

24. Write the general characters of Porella.
25. Explain life cycle of Bacteria Cholpermum
26. Describe the sporophyte of pteris.
27. Explain reproductive structure of Volvox.

V. Compulsory question for 85 marks scheme only. Long answer questions.

Answer any ONE of the following.

1X10=10 Marks

28. Write the general characters of Pteridophytes.
29. Explain reproduction of bacteria.
