

BOT-II-001
B.Sc. II Semester Degree Examination
BOTANY
Diversity of Non Flowering Plants
Paper : DSC-2
(NEP-2020)

Time : 2 Hours

Maximum Marks : 60

Instructions to Candidates:

1. Answer All the questions.
2. Diagrams will enhance the value of answers.

SECTION - A

Answer any FIVE of the following questions.

(5×2=10)

1. a) What are Zoospores?
- b) What is alternation of generation in Bryophyte?
- c) What are coralloid roots?
- d) Define Oogamy.
- e) Define haplontic cycle.
- f) What are Lithophytic algae? Give example.
- g) Define Paleobotany. Name an India Paleobotanist.

SECTION - B

Answer any FOUR of the following questions.

(4×5=20)

2. Explain in brief classification of Algae proposed by F E Fritch.
3. Explain in brief types of fossilization.
4. Describe T.S. of *Riccia* thallus.
5. Explain Anatomy of *Pinus* needle with neat labelled diagram.
6. Write general characteristics of pteridophytes.
7. Write in brief methods of Algal cultivation.

SECTION - C

(3×10=30)

Answer any THREE of the following questions.

8. Explain Stellar evolution in Pteridophytes.
 9. Give a detailed account of Sexual reproduction in *Batrachospermum*.
 10. Write in detail about economically useful Algae.
 11. Give a detailed account on reproduction and life cycle in *Salvinia*.
 12. Write a note on:
 - a) Algal blooms.
 - b) Medicinal importance of Gymnosperms.
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