

No. of Printed Pages : 2

21BSC2C2BOL



B.Sc. II Semester Degree Examination, September/October - 2023

BOTANY

Diversity of Non-Flowering Plants

(NEP)

Time : 2 Hours

Maximum Marks : 60

Note : (i) Answer **all** questions.

(ii) Draw diagram wherever necessary.

SECTION - A

1. Answer the following questions.

10x1=10

- (a) What are Cells ?
- (b) What is algal cultivation ?
- (c) What is amphiphloic siphonostele ? Give an example.
- (d) What are Rhizoids ?
- (e) What is alteration of generation ?
- (f) What is Heterospory ?
- (g) What is transfusion tissue ?
- (h) Define Microsporophyll.
- (i) What is Impression ?
- (j) What is Petrification ?



P.T.O.

SECTION - B

Answer **any four** of the following.

4x5=20

2. Write a note on algal pigments.
3. Explain the L.S of Antheceros sporophyte with neat labelled diagram.
4. Explain the T.S of Equisetum stem with a neat labelled diagram.
5. Explain the structure of T.S of Pinus needle.
6. Explain fossil fuels exploration.
7. Describe the male and female cone in Gnetum.

SECTION - C

Answer **any three** of the following.

3x10=30

8. Write a note on :
 - (a) Importance of Diatoms
 - (b) Difference between Prokaryotic and Eukaryotic algae.
9. Describe the life cycle of Funaria.
10. Describe the stellar evaluation in Pteridophytes.
11. Describe the life cycle in Cycase.
12. Write a short note on :
 - (a) Rhynia
 - (b) Amphiphloic siphonostele

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