



B.Sc. II Semester (NEP) Degree Examination, September/October - 2022

BOTANY

DSC II : Diversity of Non-Flowering Plants

Time : 3 Hours

Maximum Marks : 60

Instructions : (i) Answer **all** the questions.
(ii) Draw diagram wherever necessary.

SECTION - A

1. Answer the following questions. **10x1=10**
- (a) Name the two types of Rhizoids in Bryophytes.
 - (b) What are gemma cups ?
 - (c) What are Carnival canals ? Mention its functions.
 - (d) What is trabaculae ? Give an example.
 - (e) What is Circinate vernation ? Give example.
 - (f) Name the plant of winged pollen grains.
 - (g) What are fossils ?
 - (h) What is paleobotany ?
 - (i) What are akinites ?
 - (j) What is amyelon star ?

SECTION - B

- Answer **any four** of the following questions. **4x5=20**
- 2. Explain the structure of oedogonium with a neat labelled diagram.
 - 3. Explain the T.S of Riccia thallus with a diagram.
 - 4. What are corolloid roots ? Describe the anatomy of a corolloid root with diagram.
 - 5. Explain the LS of Selaginella cone with a neat labelled diagram.
 - 6. Explain the LS of gnetum ovule with a suitable diagram.
 - 7. What is fossilization ? Explain any four types of fossilization.



SECTION - C

Answer **any three** of the following questions.

3x10=30

8. Explain the life cycle of Chara with a neat labelled diagram.
9. Explain the LS of Anthoceros sporophyte with the help of a labelled diagram.
10. What is stele ? Describe the stelar evolution in Pteridophytes with a diagram.
11. Describe the T.S of Pinus needle with a neat labelled diagram.
12. Write a note on :
 - (a) Rhynia
 - (b) Lepidodendron

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