



B.Sc. III Semester Degree Examination, March/April - 2023

BOTANY

**Paper No. III : Plant Anatomy and Developmental Biology
(NEP)**

Time : 2 Hours

Maximum Marks : 60

- Note :** (i) Answer **all** sections.
(ii) Draw diagram wherever necessary.

SECTION - A

Answer **all** questions.

10x1=10

1. (a) Name the Living Mechanical tissue.
- (b) What is arenchyma ?
- (c) What is concentric type of vascular bundle ?
- (d) What is Isobilateral leaf give example.
- (e) Expand SAM.
- (f) What is Dormancy ?
- (g) What is Microsporogenesis ?
- (h) What is tapetum ?
- (i) Define self pollination.
- (j) What is Embryo ?

SECTION - B

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

4x5=20

2. Explain the Tunica Corpus theory.
3. Describe the Monocot stem with neat labelled diagram.
4. Write the contributions of Indian Embryologist BGL Swami.
5. Explain the structure and functions of root apical meristem.
6. Explain the TS of Anther with diagram.
7. Define ovule. Explain the types of ovule.



P.T.O.

SECTION - C

Answer **any three** of the following.

3x10=30

8. Describe the Internal structure of Boerhaavia stem with neat labelled diagram.
9. What are Complex Tissue ? Explain the elements of xylem with neat labelled diagram.
10. Describe the Microsporogenesis with neat labelled diagram.
11. What is Endosperm ? Explain the different kind of Endosperm.
12. Write short note on :
 - (a) Ultra structure of Meristems.
 - (b) What is root cap ? Explain origin of lateral roots.

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