

UG-362

BBOT-22

**B.Sc. DEGREE EXAMINATION –
JUNE, 2019.**

Second Year

Botany

PLANT ANATOMY AND EMBRYOLOGY

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. What are meristems? How are they classified?
2. Give the functions of primary and secondary tissues.
3. Explain the primary anatomical structure of a dicot root.
4. Explain the morphology of monocot and dicot leaf.
5. Compare the monocot and dicot leaf anatomy.
6. With technical terms describe the male and female reproductive organs of a flower.

7. Describe the structure of ovule.
8. Comment on Apomixis.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

9. Explain theories of meristems.
10. What are the classifications of tissues? Write their functions.
11. With suitable examples and sketches explain the types of roots.
12. With neat diagram explain types of nodal anatomy.
13. Explain the internal structure and components of leaf.
14. Describe the development of microsporangium.
15. What is pollination? Explain different methods of pollination.
16. Write short notes on
 - (a) double fertilization
 - (b) Endosperm.