B.Sc. DEGREE EXAMINATION,NOVEMBER 2018
II Year III Semester
Core Major - Paper VI
ANATOMY OF ANGIOSPERM AND EMBRYOLOGY

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. Annual ring
2. Colateral vascular bundle
3. Bulliform cells
4. Cortical bundles
5. Microsporogenesis
6. Tapetum
7. Draw the *Polygonum* type of embryo sac
8. Triple fusion
9. Haustoria
10. Ruminate endosperm
11. Chalaza
12. Bundle sheath

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. Draw and describe the internal structure of dicot stem.
14. Trace the development of *Peperomia* type of embryosac.
15. Write a note on types of Tapetum.
16. Describe the structure of an ovule with a diagram.
17. Explain the development of dicot embryo.
18. Describe the anomalous growth in *Boerhaavia* stem.
19. Write the anatomical differences between a dicot and monocot leaf.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Trace the secondary growth in dicot stem.

21. Describe the anomalous secondary growth in *Dracaena* stem.

22. Describe the structure of anther and trace the development of male gametophyte.

23. Give an illustrated account of the development of the female gametophyte of angiosperms.

24. Write an essay on endosperm and its types.

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