

D 52767

(Pages : 2)

Name.....

Reg. No.....

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018

(CUCBCSS—UG)

Complementary Course (Botany)

BOT 1C 01—ANGIOSPERMIC ANATOMY AND MICROTECHNIQUE

Time : Three Hours

Maximum : 64 Marks

Part A

Answer *all* questions. One word/Fill in the blanks (1 mark each) :

Answer in a single word :

1. Cytoplasmic connection found in Cell Wall is _____.
2. Parenchymatous Tissues containing air spaces _____.
3. Calcium Oxalate Crystals occur in the form of Rosette shape is _____.
4. _____ is the living Mechanical Tissue.
5. Casparian strip is made up of _____.
6. Histogen theory was proposed by _____.
7. The sources of illumination in Electron Microscope is _____.
8. _____ is an example of Basic Stain.
9. _____ name a plant which shows Anomalous Secondary Growth.
10. _____ proposed Apical Cell theory.

(10 × 1 = 10 marks)

Part B

Answer any *seven* questions. Short answer questions (2 marks each) :

11. Draw primary structure of Monocof Root.
12. What is Bicollateral Vascular Bundle.
13. Explain the function of Medullary Rays.
14. Explain Tunica Corpus theory.
15. Describe Digestive Glands in plants.
16. Differentiate Storied and Non-storied Cambium.

Turn over

17. Differentiate fusiform and Ray initial.
18. Differentiate Open and Closed Bundles.
19. Write a note on Sclerenchyma.
20. Describe Hydathode.

(7 × 2 = 14 marks)

Part C

Answer any six questions. Short essays (4 marks each) :

21. Explain the Anatomy of Dicot Leaf.
22. Describe the preparation of material for Microtome.
23. Explain Periderm formation.
24. Explain different types of Electron Microscope.
25. Describe different types of Vascular Bundles.
26. What is a Stain ? Explain with types.
27. Differentiate Fusiform initial of Ray initial.
28. What is a Microtome ? Give its advantages and write short notes on the types you have studied.

(6 × 4 = 24 marks)

Part D

Answer any two questions. Essays (8 marks each) :

29. Explain primary structure of Dicot and Monocot stem.
30. Explain with diagram of various Complex Tissues.
31. Discuss normal secondary growth in *Tinospora* root.

(2 × 8 = 16 marks)