

B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2023**SEMESTER – 4: BOTANY****COURSE: 15U4CRBOT4: ANATOMY AND ANGIOSPERM MORPHOLOGY***(Common for Supplementary 2018/2017/2016/2015 Admissions)*

Time: Three Hours

Max. Marks: 60

PART A***Answer all questions. Each question carries 1 mark***

1. What is Apposition?
2. Who proposed Histogen theory?
3. What is Histoenzymology?
4. What are nectaries?
5. What is cork cambium?
6. What is a corymb?
7. What is bifacial leaf?
8. What is phyllotaxy?

(1 x 8 = 8)

PART B***Answer any six questions. Each question carries 2 marks.***

9. Distinguish between Diffuse porous wood and Ring porous wood.
10. Explain histogen theory.
11. Differentiate sclereids and fibers.
12. What are passage cells? What is its role?
13. What are bulliform cells? What is its role?
14. Give an account on economic importance of Plant fibres
15. What are stem modifications? Give two examples.
16. What is spadix? Give two examples?
17. What are the different types of aestivation?
18. Distinguish actinomorphic and zygomorphic flower

(2 x 6 = 12)

PART C***Answer any four questions. Each question carries 4 marks.***

19. Describe seasoning of wood
20. What are the different types of vascular bundles seen in plants?
20. Describe different types of stomata
22. Explain various reserve food materials seen in plants.
23. Write a brief note on special types of inflorescence with necessary diagrams.
24. Write a brief note on fleshy fruits.

(4 x 4 = 16)

PART D

Answer any two questions. Each question carries 12 marks.

25. Explain the structure and function of complex tissues with the help of suitable illustrations.

OR

26. Describe the normal secondary growth in dicot stem with the help of suitable diagrams.

27. Classify meristem based on position. Add a note on theories of apical organization

OR

28. . Give an account of different types of inflorescence with suitable illustrations.

(12 x 2 = 24)
