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## III Semester B.Sc. Degree Examination, April/May - 2021 BOTANY - III

# Plant Histology, Plant Anatomy, Embryology of Angiosperms, Palynology

(CBCS)

Time: 3 Hours Maximum Marks: 70

Instruction: Answer all questions. Draw the diagrams wherever necessary.

#### SECTION - A

I. Answer all questions.

1x15=15

- 1. What is procambium?
- 2. Name the living mechanical tissue.
- 3. What is Chlorenchyma?
- 4. Give an example of Outer Cambium and Inner Cambium.
- 5. What is isobilateral leaf? Give an example.
- 6. What is the function of Arenchyma?
- 7. What is Heart Wood?
- Define the term Megasporangium.
- What is cleistogamy?
- 10. Define the term cleavage Polyembryony.
- 11. What is parthenocarpy?
- Define the term periderm.
- 13. Which type of tissue is responsible for secondary growth?
- 14. Define "Palynology".
- Define anemophily.

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#### II. Answer any five of the following.

16. Write the types of Collenchyma with diagrams.

C17. Describe the T.S. of Dicot root with diagrams.

18. Explain the Aerenchyma and its significance.

Explain with neat labelled diagram of anomalous Bougain Villea Stem (T.S.)

20. Write short notes of "B.G.L. Swamy".

21. Draw and label T.S. of matured anther.

22. Explain "Sporopollenin".

### SECTION - C

III. Answer any three of the following.

3x10=30

5x5 = 25

Write the characteristics of Meristematic tissue and explain the types.

Explain with neat labelled diagram of Bicollateral Vascular bundle with example.

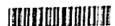
Explain the Bisporic development of embryo sac with neat labelled diagrams.

26. Write the contrivances of cross pollination.

Explain the Vascular tissues with neat labelled diagrams. 27.

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