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PG (CBCS)

M.Sc. Semester-IV Examination, 2026

BOTANY

PAPER: BOT 402

(PLANT ANATOMY AND PHARMACOGNOSY)

Full Marks: 20

Time: 1 Hour

The figures in the right-hand margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

A. Answer any **TWO** of the following questions: 2×2=4

1. What is Ergot?
2. Distinguish between dedifferentiation and redifferentiation.
3. What are alkaloids. Cite an example.
4. What is nodal anatomy? Mention its significance.

B. Answer any **TWO** of the following questions: 4×2=8

5. What is p-protein? Write down the functions of p-protein.
6. Write short note on phylogeny of xylem elements.
7. Define glycone. State the function and one example of cardiac glycosides.
8. Write note on pharmacological applications of *Catharanthus* and *Cinchona*.

C. Answer any **ONE** of the following questions: 8×1=8

9. What are crude drugs. Describe various methods for crude drugs Evaluation. 2+6
10. Give a detailed account of cell wall chemistry, biosynthesis and phylogeny.

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