

QP Code: 524006

Reg. No.....

**Fifth Semester B. Pharm Degree Supplementary Examinations  
May 2023**

**Pharmacognosy and Phytochemistry II**

**(2017 Scheme)**

**Time: 3 Hours**

**Max. Marks: 75**

- *Answer all questions to the point neatly and legibly* • *Do not leave any blank pages between answers* • *Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together* • *Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essays**

**(2x10=20)**

1. Discuss briefly about the various tracer techniques used in investigation of biogenetic pathway studies.
2. Give a pharmacognostic account on Cinchona.

**Short Notes**

**(7x5=35)**

3. Differentiate Indian Senna and Alexandrian Senna.
4. Adulterants of clove.
5. Chemical tests for benzoin.
6. Explain the microscopical character of ginger with neat labelled diagram.
7. Explain the industrial production and utilization of Atropine.
8. Principle and applications of HPTLC.
9. Pharmacognosy of Guggul.

**Answer Briefly**

**(10x2=20)**

10. Explain the source, family and uses of Myrrh.
11. Modified Borntrager Test.
12. Principle and application of electrophoresis.
13. Explain the source, family and uses of Artemisia.
14. Explain the chemical structure and uses of Ephedra.
15. Therapeutic uses of Vincristine.
16. Chemical constituents and uses of tea.
17. Application of Mass spectroscopy.
18. Chemical constituents and uses of ginger.
19. Chemical constituents and uses of opium.

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