

QP Code: 524006

Reg. No.....

**Fifth Semester B. Pharm Degree Regular/Supplementary
Examinations September 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. Define and classify alkaloids with examples. Explain the source and industrial production of atropine.
2. Explain in detail the various techniques used in elucidation of biosynthetic pathways.

Short Notes

(7x5=35)

3. Describe in detail about column chromatography.
4. Explain industrial production and estimation of artemisinin.
5. Elucidate Shikimic acid pathway.
6. Give the source and method of isolation of caffeine.
7. Describe microwave assisted extraction method.
8. Write the general method of extraction and chemical tests for glycosides.
9. Describe the microscopy of Ginger.

Answer Briefly

(10x2=20)

10. Morphology of Clove.
11. Write the chemical constituents and uses of Podophyllum.
12. Write the applications of infra-red spectroscopy.
13. Define resin, classify with example.
14. Chemical constituents and identification test for Cinchona.
15. Write the biological source, chemical constituents, and uses of Dioscorea.
16. Chemical constituents of Vinca and uses.
17. Write the method of collection of Opium.
18. Write the biological source, chemical constituents, and uses of Myrrh.
19. Classify tannins with examples.
