

QP Code: 524006

Reg. No.....

**Fifth Semester B. Pharm Degree Supplementary Examinations
September 2025
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. Describe about ultra-violet, NMR and Mass spectroscopical methods.
2. Explain sources, industrial production, estimation and utilization of digoxin and diosgenin.

Short Notes

(7x5=35)

3. Explain biogenesis of secondary metabolites by acetate pathway.
4. Define tannins. Write the general properties, and classification of tannins with examples.
5. Describe super critical fluid extraction method.
6. Describe the microscopy of Liquorice.
7. Describe the principle and application of thin layer chromatography.
8. Describe the cultivation of Opium.
9. Define and classify volatile oil with examples. Describe the general method of extraction of volatile oil.

Answer Briefly

(10x2=20)

10. Write the biological source, chemical constituents, and uses of Ephedra.
11. Morphology of Fennel.
12. Write the chemical constituents of Tea and Senna.
13. Mention applications of paper chromatography.
14. Write the biological source, chemical constituents, and uses of Colophony.
15. Write the biological source, chemical constituents, and uses of Bitter almond.
16. What is Modified Borntrager's test. Give its significance
17. Difference between HPLC and HPTLC.
18. Write the biological source, chemical constituents, and uses of Gentian
19. Autoradiography.
