

QP CODE: 113330

Reg. No:.....

**First Semester M.Pharm Degree Regular/Supplementary Examinations
November 2021**

M.Pharm (Pharmacognosy)

Paper III – Phytochemistry (MPG 103T)

(Common for 2017 and 2019 Scheme)

Time: 3 Hours

Total 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

(3x10=30)

1. Isolation, purification, characterization and biosynthesis of digitoxin.
2. Explain in detail the use of HPTLC and LC-MS in the characterization of herbal extracts
3. Explain the selection and optimization of artemesin as lead molecule and structure development

Short Notes

(9x5=45)

4. Biosynthetic pathway of strychnine
5. Isolation and characterization of quercetin
6. Chemistry and uses of glycyrrhizin
7. Structural elucidation of luteolin
8. Precursor-Product analysis in the tracing technique
9. Supercritical fluid extraction and its applications.
10. CCCET method and its advantages
11. Structural elucidation of Citral by IR method
12. Process of drug registration
