First Semester M.Pharm Degree Regular/Supplementary Examinations March 2020 M.Pharm (Pharmacognosy)

Paper III – Phytochemistry (MPG 103T)

(Common for 2017 and 2019 Scheme)

## Time: 3 Hours

- 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

- 1. Explain phytochemical finger printing with suitable examples.
- 2. Discuss the drug discovery and development of Artemesin.
- 3. Describe on the methods of separation of phyto-constituents by CCCET and SCFE techniques

## Short Notes

- 4. HPTLC applications in the characterization of herbal extracts.
- 5. Structure elucidation of Carvone.
- 6. Structure elucidation of luteolin by spectroscopic techniques like UV, IR, MS and NMR.
- 7. Isolation and characterization of ephedrine.
- 8. Biosynthesis and importance of digitoxin.
- 9. Phases of clinical trials.
- 10. Methods of fractionation of phyto-constituents.
- 11. Structure elucidation of nicotine.
- 12. Importance of guggulosterone and withanolides in herbal industries

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## QP CODE: 113330

(3x10=30)

(9x5=45)

Total Marks: 75

Reg. No:....