

Code: 17S06102

M.Pharm I Semester Regular Examinations February 2018

**PHYTOCHEMISTRY**

(Pharmacognosy)

(For students admitted in 2017 only)

Time: 3 hours

Max. Marks: 60

Answer all the questions

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- 1 Write the biosynthesis, isolation, characterization, purification and uses of ephedrine.
- OR**
- 2 Explain the phytochemistry of digitoxin and glycyrrhizin.
- 3 Write a detailed note on the drug discovery and development of 'Artemesin'.
- OR**
- 4 (a) Write a short note on clinical studies.  
(b) Write a short note on drug registration.
- 5 Discuss microwave assisted extraction.
- OR**
- 6 Explain separation of phytoconstituents by CCCET & SCFE techniques.
- 7 Explain LCMS/GCMS applications in the characterization of herbal extracts.
- OR**
- 8 Outline the process of structure elucidation of phytoconstituents.
- 9 Describe the structure elucidation of menthol with the help of spectroscopic techniques.
- OR**
- 10 Explain the role of UV, IR, MS & NMR in the structure elucidation of Nicotine.

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