

Code: 13R00705

**R13**

B.Pharm IV Year I Semester (R13) Regular &amp; Supplementary Examinations November 2017

**CHEMISTRY OF NATURAL PRODUCTS**

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

\*\*\*\*\*

- 1 Answer the following: (10 X 02 = 20 Marks)
- Write any two identification tests for alkaloids.
  - Write the structure and uses of Morphine.
  - Write the hydrolysis of reserpine.
  - Explain the special isoprene rule.
  - Write the pharmaceutical uses of 1, 8 – cineole.
  - Write the conversion of camphor to camphoric acid.
  - Define cardiac glycosides with examples.
  - Write any two structure and uses of bile acids.
  - Classify vitamins.
  - Write the structure and uses of pyridoxine.

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

- 2 Explain in brief the general extraction procedure for alkaloids.

**OR**

- 3 Explain the structural elucidation of ephedrine.

**UNIT – II**

- 4 Write a note on Narcotic antagonists and antitussive agents.

**OR**

- 5 Classify Ergot alkaloids. Add a note on synthetic derivatives.

**UNIT – III**

- 6 Classify terpenoids with examples; Explain their extraction procedure in brief.

**OR**

- 7 Write the conversion of Camphor to P-cymene, Borneol and Isoborneol.

**UNIT – IV**

- 8 Explain the stereochemistry of cholesterol.

**OR**

- 9 Outline the synthesis of Testosterone. Mention its uses.

**UNIT – V**

- 10 Explain the structural elucidation of Riboflavin.

**OR**

- 11 Write a note on vitamin A, D, E & K.

\*\*\*\*\*