

Code: 13R00705

B.Pharm IV Year I Semester (R13) Regular Examinations November 2016

**CHEMISTRY OF NATURAL PRODUCTS**

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

\*\*\*\*\*

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Outline the general extraction procedure for glycosides.
  - (b) What is the principle of HEM method?
  - (c) Draw the structure of papaverine.
  - (d) Write any two uses of tropane alkaloids.
  - (e) State isoprene rule.
  - (f) Write any two pharmaceutical uses of citral.
  - (g) Write any two uses of bile acids.
  - (h) Write the sources of diosgenin.
  - (i) Classify vitamins.
  - (j) Draw the structure of vitamin A.

**PART – B**

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

**UNIT - I**

- 2 Outline the structural elucidation of ephedrine.
- OR**
- 3 Explain the general extraction procedure for any four phytoconstituents.

**UNIT - II**

- 4 Explain the SAR of morphine and morphine like analgesics.
- OR**
- 5 Write a detailed note on structure, uses and mechanism of action of reserpine.

**UNIT - III**

- 6 Write the source, structure, general extraction procedure and pharmaceutical uses of menthol.
- OR**
- 7 Write a short essay on conversion and inter-conversion of camphor into camphoric acid.

**UNIT - IV**

- 8 Write a brief note on stereochemistry of cholesterol.
- OR**
- 9 Outline the mechanism of action, SAR, therapeutic uses and toxicity of digitalis.

**UNIT - V**

- 10 Outline the structural elucidation of riboflavin.
- OR**
- 11 Write a short note on the chemistry of thiamine and riboflavin.

\*\*\*\*\*