QP CODE: 302006(Old Scheme) Reg. No:

Third Year B. Pharm Degree Supplementary Examinations - July 2016

PHARMACEUTICAL CHEMISTRY IV

(Chemistry of Natural Products)

(2010 Scheme)

Time: 3 Hours Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay (3x10=30)

- 1. Explain the structural elucidation of ephedrine
- 2. Explain the chemistry and uses of camphor.
- 3. Discuss in detail about the structural elucidation of vitamin B₂

Short notes (14x5=70)

- 4. Structural elucidation of uric acid.
- 5. What are polypeptides and mention the structural features of insulin.
- 6. Determination of structure of N-terminal amino acids of peptides (end group analysis).
- 7. Cellulose and cellulose derivatives.
- 8. Explain the method to determine the saponification value of oils and fat.
- 9. Structure and uses of cortisone, hydrocortisone and important synthetic corticosteroids
- 10. How do you determine the alcoholic-OH group and carbonyl group in alkaloids
- 11. Determination of ring size of monosaccharides.
- 12. Structure and biological importance of prostaglandins.
- 13. Stereochemistry and numbering the ring system of steroids.
- 14. Structure and uses of maltose and vitamin B₆.
- 15. Chemistry of cardiac glycosides
- 16. Classify terpenoids and mention isoprene rules.
- 17. Epimerization and osazone formation
