QP CODE:312006 Reg.No:

Third Year B.Pharm Degree Examinations - July 2016

PHARMACEUTICAL CHEMISTRY IV

(Chemistry of Natural Products)

(2012 Scheme)

Time: 3 Hours Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay (3x10=30)

- 1. Discuss the chemistry and structural elucidation of atropine
- 2. Discuss the chemistry and structural elucidation of caffeine
- 3. Explain any three analytical constants of fats and oils.

Short notes (14x5=70)

- 4. Determination of ring size in sugars
- 5. Structure of cellulose
- 6. Classification of amino acids with structures
- 7. Any two methods of preparation of amino acids
- 8. Chemistry of ionones.
- 9. Chemical tests for alkaloids
- 10. Chemistry of sapogenins
- 11. Structural elucidation of vitamin A
- 12. Determination of unsaponifiable matter in oils and fats
- 13. Synthesis of uric acid
- 14. Chemistry of cholesterol
- 15. Synthetic anabolic steroids
- 16. Structural features of insulin
- 17. Biological importance of prostaglandins
