QP CODE:302006	Reg.No:
a	

Third Year B.Pharm Degree Supplementary Examinations - March 2015

PHARMACEUTICAL CHEMISTRY IV (Chemistry of Natural Products)

Time: 3 Hours Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay (3x10=30)

- 1. Define alkaloids and classify them chemically with examples. Outline the general method of isolation of alkaloids from plants.
- 2. Discuss the structure and chemical properties of sucrose.
- 3. Explain the nomenclature and stereo chemistry of steroids.

Short notes (14x5=70)

- 4. Explain the essential amino acids and mention the structures of four of them.
- 5. Chemistry and uses of ionones.
- 6. Structural elucidation of ephedrine.
- 7. Chemical structure and biological activities of thyroxine.
- 8. Chemistry of bile acids.
- 9. Chemical structure and biological importance of vitamin C and vitamin B₂.
- 10. Explain the inter- relationship of caffeine, theobromine and theophylline.
- 11. Synthesis and use of any one non-steroidal oestrogenic compound.
- 12. Explain the secondary structure of proteins.
- 13. Chemical structure of various aglycones of cardiac glycosides.
- 14. Explain the significance of analytical constants of fats and oils.
- 15. Chemical structure and uses of clinically useful prostaglandins.
- 16. Important synthetic gluco-corticoids.
- 17. Pharmaceutical importance of various carbohydrates.
