QP CODE:302006	Reg.No:

Third Year B.Pharm Degree Supplementary Examinations - August 2015

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. Discuss the structure elucidation and pharmacological activity of ephedrine.
- 2. Explain the chemistry of cholesterol in detail.
- 3. Discuss the structure elucidation, chemistry and pharmacological uses of vitamin B₁.

Short notes (14x5=70)

- 4. Define saponification value. Explain the method to determine it.
- 5. Show the inter relationship between oestrone, oestradiol, and oestriol structures.
- 6. Chemistry of sapogenins.
- 7. Chemistry and uses of camphor.
- 8. Secondary structure of proteins.
- 9. Epimerization of D glucose.
- 10. Denaturation of proteins.
- 11. Define and classify amino acids with structures.
- 12. Chemical structure and biological importance of vitamin A and vitamin B₂.
- 13. Chemical structures and biological importance of therapeutically useful prostaglandins.
- 14. Discuss the structural features and uses of insulin.
- 15. What are glucocorticoids. Mention the structure and uses of important synthetic corticosteroids.
- 16. Chemistry and structural elucidation of caffeine.
- 17. Synthesis and uses of non-steroidal estrogenic compounds.
