QP CODE:302006	Reg.No:
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Third Year B.Pharm Degree Supplementary Examinations - August 2014

PHARMACEUTICAL CHEMISTRY IV (Chemistry of Natural Products)

Time: 3 Hours Total Marks: 100

- Answer all Questions.
- Write chemical structures wherever necessary"

Essay (3x10=30)

- 1. Discuss in detail the structural elucidation of uric acid.
- 2. How will you determine the ring size of glucose. List out the characteristic differences between glucose and fructose.
- 3. Elucidate the structure of atropine in detail.

Short notes (14x5=70)

- 4. Structure, biological activities and uses of aldosterone.
- 5. What are prostaglandins. Mention the structure and uses of important prostaglandins.
- 6. Steroidal oral contraceptive agents.
- 7. Show the inter relationship of oestrone, oestradiol and oestriol.
- 8. Explain the chemistry of sapogenins
- 9. Hofmann's exhaustive methylation method using pyridine as example.
- 10. Chemistry and uses of camphor.
- 11. Deoxy sugars and denaturation of proteins.
- 12. Explain N-terminal residue analysis.
- 13. Explain the primary structure of proteins.
- 14. Elucidate the structure of pyridoxine.
- 15. Define the term steroids and explain the chemistry of cholesterol.
- 16. Discuss the chemistry of cardiac glycosides.
- 17. Define 'lodine value'. Explain any one method of its determination in detail. Add a note on its significance.
