

Third Year B.Pharm Degree Supplementary Examinations June 2017

**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. Describe in detail about the chemistry of cardiac glycosides
2. Discuss the analysis of C- terminal amino acid and N- terminal amino acids
3. Explain the structural elucidation of vitamin B<sub>2</sub>

**Short notes**

**(14x5=70)**

4. Chemistry of alpha-terpineol
5. Epimerization and glycosidic linkage
6. Skeletal structure and uses of vitamin A and atropine
7. Structure of bile acids
8. Synthesis of progesterone from cholesterol
9. Chemistry of Sapogenins
10. Cellulose and deoxy sugars
11. Stereochemistry of ergo sterol
12. Significance of acid value and peroxide value
13. Skeletal structure estrone, oestradiol and oestriol
14. Pharmacological activity of morphine and ephedrine
15. Biological activities and uses of aldosterone
16. synthesis of caffeine
17. Reactions due to carboxyl group in amino acids

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