QP CODE: 102006 (OLD SCHEME)	Reg. No:
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First Year B.Pharm Degree Supplementary Examinations, February 2017

PHARMACEUTICAL CHEMISTRY - II

(Organic Chemistry)

(2010 - Scheme)

Time: 3 Hours Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay (3x10=30)

- 1. Explain free radical substitution of reaction of alkanes
- 2. State Markonikoff's rule and explain with suitable examples
- 3. Explain electrophilic aromatic substitution reaction with theory of reactivity and orientation in mono substituted benzenes.

Short notes (14x5=70)

- 4. Explain hyperconjugation and inductive effect
- 5. Basicity of amines
- 6. Mention two methods for preparation of carbonyl compounds. Add a note on its polarity and reactivity
- 7. Mechanism of E₁ and E₂ reaction
- 8. Hoffmann's degradation of amides
- 9. Explain Oppenauer oxidation and reformatsky reaction
- 10. Saytzeff's rule
- 11. Kekule's structure of benzene
- 12. SP³ and SP² hybridisation
- 13. Explain the relative reactivities of three classes of alcohols
- 14. Two methods for the synthesis of nitriles and explain its reactivity
- 15. Acid derivatives
- 16. Stability of phenoxide ion
- 17. Define bond angle, bond energy and electrophile
