

QP CODE:102006

Reg.No:

First Year B.Pharm Degree Supplementary Examinations - March 2013

PHARMACEUTICAL CHEMISTRY - II

(Organic Chemistry)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. State Markonikoff's rule and explain with suitable examples .
2. Enumerate the concepts of Bayer's strain theory and its limitations. Give reason for the stability of cyclohexanes
3. Explain the method of preparation and any three synthetic reactions of aceto acetic esters.

Short notes

(14x5=70)

4. Explain polymerization reaction of alkenes with an example
5. Briefly explain hyper conjugation.
6. Explain the mechanism of electrophilic aromatic substitution reaction with an example
7. Cannizzaro's reaction.
8. List any two methods of preparation of aldehydes and ketones.
9. Explain the relative reactivities of three classes of alcohols
10. List any two methods of preparation of ethers.
11. Define: bond angle , bond energy and Huckel's rule.
12. Explain Walden inversion with an example
13. Metal acetylide reaction.
14. . Explain the Hinsberg method of separation of amines.
15. Explain: • Kolbe- Schmidt reaction • Acylation reaction of amines.
16. Explain E₂ elimination reaction with mechanism
17. Theory of reactivity in mono substituted benzenes.
