

2012 Scheme

QP CODE: 112006

Reg. No:

First Year B. Pharm Degree Supplementary Examinations March 2022 Pharmaceutical Chemistry - II

(Organic Chemistry)

Time: 3 Hours

Total Marks: 100

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Write equations wherever necessary.

Essay

(3x10=30)

1. Discuss various types of hybridization in carbon compounds with suitable examples
2. Elaborate the facts supporting Kekulé structure of Benzene.
3. Discuss Bayer's strain theory and its limitations with suitable examples

Short notes

(14x5=70)

4. Compare reactivity of alkane, alkene and alkynes. Justify
5. Explain the free radical substitution reaction of Methane.
6. Inductive effects with examples.
7. What is Markovnikov's rule. Explain mechanism involved.
8. Outline Walden inversion and Saytzeff's rule.
9. What are Grignard reagents. Explain its preparation and utility in organic synthesis.
10. Discuss nomenclature and elimination reactions of alcohols
11. How to prepare phenols and compare the acidity of phenol with alcohols.
12. What is Cannizzaro reaction. Explain the mechanism of Cannizzaro reaction.
13. Any two reactions of esters.
14. Compare water solubility of Benzoic acid, Acetic acid and Sodium Benzoate. Justify.
15. Write down decarboxylation and reduction reactions of carboxylic acids.
16. Describe the reaction and mechanism of Diels-Alder reaction
17. Explain conformational and geometrical isomerism.
