

Q.P. Code 104008

Reg. No.:.....

**First B.Pharm (Ayurveda) Degree Regular/Supplementary Examinations
November 2019**

Pharmaceutical Chemistry

Time: 3 hrs

Max marks: 100

- Answer all questions
- Write equations wherever necessary
- Draw diagrams wherever necessary

Essays

(2x10=20)

1. Discuss general methods of preparation and reactions of alkenes.
2. Explain the mechanism involved in electrophilic aromatic substitution. Make a note on Friedel Craft's acylation

Short notes

(10x5=50)

3. SP³ hybridisation.
4. Reactions of alkanes.
5. Hyper conjugation.
6. Aldol condensation.
7. Effect of substituents on acidity of phenols.
8. Preparation and reactions of diazonium chloride.
9. IR spectroscopy and its applications.
10. Reactions of iron.
11. Preparations and properties of alicyclic compounds.
12. Methods of preparation of monocarboxylic acids.

Answer briefly

(10x3=30)

13. Conversion of acid to acid chloride.
14. Give structures of 2-Chloro-5-nitrobenzaldehyde and 4-Methylhex-2-ene.
15. Mechanism of esterification.
16. Limit test for iron.
17. Kekule's structure of benzene.
18. Structure and any one reaction of carbanion.
19. Reactions of nitro compounds.
20. Covalent bond.
21. Give an account on boat and chair conformations of cyclohexane.
22. Reactions of anhydrides.
