

**First B.Pharm (Ayurveda) Degree Supplementary Examinations
March (November), 2020**

Pharmaceutical Chemistry

Time: 3 hrs

Max 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
- Draw Diagrams wherever necessary • Write equations wherever necessary

Essays**(2x10=20)**

1. Define alkanes. Give general methods of preparation and properties of Alkanes.
2. Define resonance. Explain conditions required for it, its types, energy and effect.

Short notes**(10x5=50)**

3. Define hybridization. Explain SP hybridization with example.
4. Explain Friedal craft acylation reaction.
5. Give general methods of preparation of Alkyl halide.
6. Explain phenols. How they differ from alcohol. Explain acidity of phenol and alcohol.
7. Give preparations and reactions of amine.
8. Explain UV spectroscopy.
9. Give occurrence and properties of calcium.
10. Explain free radical substitution reaction and its mechanism.
11. Explain borax.
12. Give general methods of preparation cyclohexane.

Answer briefly**(10x3=30)**

13. Give structure of;
 - 3,3-Diethylpentane • 1,5- Hexadiene • 1-Chloro, 2-pentenone.
14. Define H bond and give its types with example.
15. Give reactions of Diazonium salt.
16. Explain Carbonium ion and its stability.
17. Give structure of Benzene.
18. Explain chair and boat conformation of cyclohexane.
19. Explain Cannizaro reaction.
20. Application of IR spectroscopy.
21. Explain limit test of Iron.
22. Give conversion of acid to acid chloride.