

Q.P. Code 104008

Reg. No.:.....

**First B. Pharm (Ayurveda) Degree Supplementary Examinations
November 2021**

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. Explain H- bond, its types, effect and applications.
2. Explain cycloalkanes. How are they prepared. Describe their important reactions.

Short notes

(10x5=50)

3. Give preparations and reactions of Alkene.
4. Explain Friedal craft alkylation reaction.
5. Give preparations of Alcohol.
6. Define hybridization. Explain SP³ hybridization with example.
7. Different methods of preparation and reactions of Nitro compound.
8. Explain IR spectroscopy.
9. Explain general methods of preparation of Aldehyde.
10. Give occurrence and properties of Iron.
11. Give reactions of alkyl halide.
12. Explain ammonium chloride.

Answer briefly

(10x3=30)

13. Steric effect.
14. Explain hyper conjugation.
15. Explain molecular orbital with suitable example.
16. Explain effect of substituent on acidity of Phenol
17. Give reactions of Amine.
18. Explain limit test for chloride.
19. Give conversion from acid to ester.
20. Application of NMR spectroscopy.
21. Explain polarity of bonds.
22. Give structure of;
 - 2,3 -Dichloropropane • 2-Methyl 2-pentene • 1,3-Propanediol
