

First B.Pharm (Ayurveda) Degree Examinations, October 2016**PHARMACEUTICAL CHEMISTRY****Time : 3 hrs****Max marks : 100**

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

Essays**(2x10=20)**

1. What are alkanes - mention the nomenclature, preparation and reactions of alkanes
2. Discuss about electrophilic aromatic substitution with suitable example

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

3. Define hybridization and add a note on different type of hybridization with examples
4. General method of preparation and reactions of alkyl halides
5. The acidity of phenols and effect of substituents on acidity
6. Aldol condensation and mechanism
7. Preparation and assay of ammonium chloride
8. The procedure and reaction involved in the limit test for chloride
9. Baeyer's strain theory
10. Explain with mechanism about Friedel craft alkylation
11. Mention the structural formula for the following
 - 1-butene • P-nitrophenol • 2-bromo-3,5-dichloroheptane
 - ethanolamine • 1,1-dimethyl cyclobutane
12. Kekule's structure of benzene

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

13. Difference between ionic bond and covalent bond
14. Inductive effect
15. Carbonium ion
16. Chemistry of diazonium salt
17. Define limit test and its application
18. Any two example of dicarboxylic acid
19. How will you identify aldehydes and ketones
20. Mention the reaction of amines
21. Note on esterification reaction
22. Stability of carbonium ions
