

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

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

Essays**(2x10=20)**

1. Describe in detail the nomenclature, general method of preparation and reactions of phenol.
2. Explain in detail the characteristic nucleophilic substitution reactions of alcohol.

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

3. Important method of preparation of carbonyl compound.
4. Polymerization of alkenes.
5. Effect of substituents on the acidity of phenol.
6. Electrophilic addition reaction of alkenes.
7. sp hybridization.
8. Mention the general method of preparation of nitro compounds.
9. Explain about haloform reaction.
10. What are the causes for the acidity of carboxylic acid.
11. Friedel-Crafts alkylation of benzene.
12. Explain about cis and trans addition of alkenes.

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

13. Mention the canonical forms of phenoxide ion.
14. Can you easily oxidize ketones. Explain.
15. Mention the nomenclature of amines.
16. Uses of alkanes.
17. Conversion of carboxylic acid to acid chlorides.
18. How is the basicity of aniline affected by substituent on the ring.
19. Note on the reduction of aromatic nitro compounds.
20. Explain hyperconjugative effect.
21. How to separate mixture of amines.
22. Define inductive effect and add a note on positive & negative inductive effect.
