

First B.Pharm (Ayurveda) Degree Examinations October 2018**Pharmaceutical Chemistry****Time: 3 hrs****Max marks: 100**

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

Essays**(2x10=20)**

1. Explain why benzene undergoes electrophilic substitution reactions whereas alkenes undergo addition reaction.
2. Discuss the conversion of carboxylic acid to their corresponding chloride, ester and amide derivatives

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

3. Explain molecular orbital with suitable diagram.
4. Give method of preparation of alkynes.
5. Differentiate SN_1 and SN_2 reactions.
6. Aldol condensation.
7. Give methods of preparation of primary amine.
8. Explain limit test for chlorides.
9. How will you distinguish between primary, secondary and tertiary alcohol.
10. Give occurrence and properties of iron.
11. Explain preparation and assay of NH_4Cl .
12. Give general reactions of nitro compound.

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

13. Explain diazotization reaction.
14. Explain Cannizzaro reaction.
15. Applications of UV spectroscopy.
16. Discuss the basicity of amines.
17. Reactions of mercury.
18. Explain hyper conjugation.
19. Explain o/p activators.
20. Why alkene is known as olefin
21. What is electrophile. Explain.
22. Give structure of 2-pentene, croton aldehyde, anisole
