

First B.Pharm (Ayurveda) Degree Examinations October 2017**PHARMACEUTICAL CHEMISTRY****Time : 3 hrs****Max marks : 100**

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

Essays**(2x10=20)**

1. Discuss the effect of substituents on electrophilic aromatic substitution reaction and why chloro group in ortho and para directing
2. Explain free radical substitution reaction of alkanes in detail

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

3. Explain cannizzaro reaction with mechanism
4. Explain briefly about SN_1 and SN_2 reaction
5. Kharasch effect
6. General method of preparation of alkenes
7. Structure of benzene and its aromaticity
8. Chemical reactions of carbonyl compounds
9. Principle and chemical reactions involved in the limit test for iron
10. Explain the acidity of carboxylic acid
11. Diazotization reaction
12. Explain elimination reaction of alkyl halides

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

13. What are activators and deactivators in electrophilic aromatic substitution and give the reason
14. Any three identification tests for carboxylic acids
15. Explain about inductive effect with examples
16. Sachse-Mohr theory
17. Huckel's rule
18. The relative reactivity of primary, secondary and tertiary alcohols
19. Dicarboxylic acids
20. Application of NMR spectroscopy
21. How will you prepare borax
22. IUPAC nomenclature of alcohol