

First B.Pharm (Ayurveda) Degree Examinations, October 2014**PHARMACEUTICAL CHEMISTRY****Time : 3 hrs****Max marks : 100**

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

Essays**(2x10=20)**

1. Explain in detail about aldol condensation.
2. Explain about the characteristic reactions of benzene.

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

3. Huckel's rule.
4. Explain in detail on activating and deactivating influence of substituent's present in benzene ring.
5. Low reactivity of aryl halide towards nucleophilic substitution reaction.
6. Explain the resonance theory of benzene.
7. Explain the various method of preparation of alcohols.
8. sp^3 hybridization.
9. Explain the mechanism of SN_1 reaction.
10. Mechanism involved in free radical substitution reaction of alkanes.
11. Mention the molecular orbital structure of benzene.
12. Explain the stability of cyclohexane.

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

13. Can you reduce aldehyde. Explain.
14. Distinguish between primary, secondary and tertiary alcohols.
15. What is a co-valent bond.
16. Identification tests for aldehyde.
17. Define U.V spectroscopy.
18. Why phenol is more acidic than ethanol.
19. Discuss the identification tests for mono and di carboxylic acid in briefly
20. Explain hydrogen bond.
21. Describe the kekule structures of benzene.
22. Nomenclature of alkenes.
