

First B.Pharm (Ayurveda) Degree Examinations, October 2013

PHARMACEUTICAL CHEMISTRY

Time : 3 hrs

Max marks : 100

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

Essays

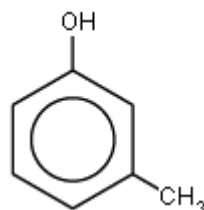
(2x10=20)

1. Discuss in detail the kekule structure of benzene, giving arguments for and against its validity.
2. Explain the general method of preparation and reactions of alkyl halides.

Short notes

(10x5=50)

3. sp^2 hybridization.
4. Mention the IUPAC and common naming of following compounds



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5. Friedel-Crafts alkylation reaction of benzene.
6. Discuss IUPAC rules.
7. What is Kharash peroxide effect.
8. Explain about the applications of I.R spectroscopic analysis.
9. Polarity in covalent bonds.
10. Cannizzaro reaction.
11. Explain the decarboxylation reaction of carboxylic acid.
12. How are phenols named. Mention the systematic and common names of any three structures.

Answer briefly

(10x3=30)

13. Define bond angle and bond length.
14. Note on electrophiles.
15. Uses of NMR spectra.
16. What is Tollen's reagent.
17. Aldehydes are more reactive than ketones towards nucleophiles. Why.
18. Note on ionic bond.
19. Mention the uses of cyclopropane.
20. Distinguish between primary, secondary and tertiary amines.
21. Mention the Dewar structures of benzene.
22. Explain about inductive effect.
