

First B.Pharm (Ayurveda) Degree Supplementary Examinations April 2018

Pharmaceutical Chemistry

Time: 3 hrs

Max marks: 100

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

Essays

(2x10=20)

1. Define nucleophilic substitution reaction and explain SN_2 reaction.
2. What are phenols. How they differ from alcohol. Add a note on Reimer-Tiemann reaction

Short notes

(10x5=50)

3. Define H-bond, its type and describe its effect.
4. Give chemical reactions of alkenes.
5. Explain resonance.
6. Explain Gutzeit test.
7. Give general method of preparation of nitro compound.
8. Give occurrence and properties of sulphur.
9. Explain structure of benzene and its aromaticity.
10. Preparation methods of aldehyde.
11. Explain free radical substitution reaction in alkane.
12. How will you separate a mixture of primary, secondary and tertiary amines.

Answer briefly

(10x3=30)

13. Differentiate between covalent and ionic bond.
14. Explain inductive effect.
15. Applications of NMR spectroscopy.
16. Kolbe reaction
17. Uses of borax
18. What is nucleophile. Explain.
19. Give any three reactions of carboxylic acid.
20. Explain bond fission.
21. Give IUPAC name of $HCHO$, $C_2H_5COOCH_3$, CH_3COCl
22. Reactions of iron