

First Year Pharm D Degree Supplementary Examinations - January 2016

Pharmaceutical Organic Chemistry

Time: 3 Hours**Total Marks: 70**

- Answer all Questions.
- Write equation wherever necessary.

Essay**(3x10=30)**

1. Describe the reaction and explain the mechanism involved in the nitration of bromobenzene. Predict the major products obtain from the above reaction and justify your answer.
2. Mention any three addition reactions of alkenes with equations taking propene as an example. Explain mechanism of any one of them.
3. Describe the method of preparation, principle involved in the assay and medicinal uses of the chlorbutol and glycerine trinitrate

Short notes:**(8x5=40)**

4. Write a note on intermolecular forces
5. Mechanism, kinetics and stereochemistry involved in SN_2 reactions.
6. Mention any three methods of preparation of cycloalkanes.
7. Explain the dehydration of alcohol with mechanism by taking an example.
8. Mention the reaction along with mechanism involved in benzoin condensation.
9. Explain 1,2 addition Vs 1,4 addition of conjugated dienes.
10. Stability of carbocations.
11. How will you convert carboxylic acids to amides and esters.
