

First Year Pharm D Degree Examinations - August 2013

Pharmaceutical Organic Chemistry

Time: 3 Hours

Total Marks: 70

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(3x10=30)

1. Describe about the general nomenclature of alkanes, alkenes and alkynes.
2. Explain in detail:
 - Markovnikoff's rule and anti markovnikoff's rule.
 - Theory of resonance.
3. Explain the following reaction with mechanism:
 - Reimer- Tiemann reaction.
 - Williamson synthesis.

Short notes:

(8x5=40)

4. Role of solvents/reagents in nucleophilic substitution reaction.
5. Aromatic group substitution and orientation.
6. General mechanism of aldol condensation.
7. Mention the preparation, assay and uses of dimercaprol and saccharin.
8. Define and classify carboxylic acids with suitable examples.
9. Explain the role of carbocation and brief about rearrangement of carbocation.
10. Explain briefly about 1, 4 addition and hyper conjugation.
11. Define isomerism with suitable examples.
