

**QP CODE:104326**

**Reg.No: .....**

**First Year Pharm D Degree Examinations June 2017**

**Pharmaceutical Organic Chemistry**

**Time: 3 Hours**

**Total Marks: 70**

- Answer all Questions.
- Write equation wherever necessary.

**Essay**

**(3x10=30)**

1. Enumerate the concept of free radical reaction and its mechanism with one example.
2. Explain the IUPAC nomenclature of amines and alcohols.
3. Compare the aliphatic and aromatic nucleophilic substitution with examples

**Short notes:**

**(8x5=40)**

4. Discuss the Markownikovs rule
5. Compare the acidity of phenols with alcohols.
6. Mention structures of chlorobutol, vanillin and lactic acid
7. Mention about Lewis. theory on acid and base
8. Differentiate activating and deactivating groups
9. Compare the elimination vs substitution reaction with examples
10. Add note on Perkin condensation
11. Explain briefly about: • Vinyl cation • carbocation

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