**B.Pharm 3rd Semester Examination**

**Subject- Pharmaceutical Organic Chemistry-II (BP301T)**

**Full mark- 75 Time – 3 hours**

**Answer all the questions.**

1. Answer all (10x2=20)

(a) Why benzene reacts at slower rate than alkenes?

(b) P-nitrophenol is stronger acid than m- nitrophenol,Why?

(c) Give the essential difference between friedal crafts alkylation and acylation.

(d) Define aromatic amine.

(e) On reaction with sodium hydroxide phenol forms salts where as alcohol does not why?

(f) What happens when naphthalene is treated with V2O5 at 500.c?

(g) Write Hofmann’s degradation reaction.

(h) What is ammonolysis?

(i) What is Medius reduction?

2. Answer any two questions. (2 x 10=20)

(a) What are cycloalkanes? Give any three methods for preparation of cycloalkanes.

(b) Briefly explain molecular orbital structure of Benzene.

(c) Explain in detail the chemical properties of phenols.

3. Answer any seven questions. (7x5=35)

(i) How will you synthesize diphenylmethane.

(ii) Explain Coulson and Moffit’s modification.

(iii) Enumerate reduction reaction of anthraquinone.

(iv) What is ionisation of aromatic acid?

(v) Give mechanism of carbylamine reaction.

(vi) Explain Claisen rearrangement reaction.

(vii) What is Curtius reaction?

(viii) Write brief about rancidification.

(ix) Write short notes on.

1. Iodine value
2. Saponification