

Roll No

PY-301

B.Pharm., III Semester

Examination, December 2016

Choice Based Credit System (CBCS)

Pharm. Chemistry - III

(Organic Chemistry - II)

Time : Three Hours

Maximum Marks : 60

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) What is Huckel's rule? How it explains aromatic nature of compounds?
b) Explain with structure role of anhydrous aluminium chloride in Friedel crafts alkylation reaction.
c) Why -OH group is an activating group?
2. a) Explain with resonance structure acidity of phenols.
b) Give mechanism of Reimer-Tiemann reaction.
c) How 1-naphthol can be differentiated from 2-naphthol?
3. a) Why aniline is a weaker base than ammonia?
b) Explain the following with mechanism.
 - i) Reaction of amines with nitrous acid
 - ii) Hofmann elimination

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4. a) Give principle and procedure for determination of saponification value and acid value.
b) Discuss Hydrolysis and rancidity of oils.
5. Discuss synthesis and reaction of any two of the following :
 - a) Naphthalene
 - b) Anthracene
 - c) Triphenyl methane
6. a) Explain the limitations of Baeyer's strain theory.
b) Give important reactions of cyclobutene.
7. a) Give structure and uses of DDT and chloramine.
b) Give mechanism of nitration and sulphonation in Benzene.
8. Write notes on any three of the following:
 - a) Sachse Mohr's theory
 - b) Ester value of fats
 - c) Diazotization reaction
 - d) Orbital picture of benzene

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