

35381 : Pharmaceutical Organic Chemistry - II

BP 301 T

P. Pages : 3

Time : Three Hours



AW - 2344

Max. Marks : 75

- Notes :
1. All questions are compulsory.
 2. Assume suitable data wherever necessary.
 3. Diagrams and chemical equations should be given wherever necessary.
 4. Discuss the reaction, mechanism wherever necessary.
 5. Use of pen Blue/Black ink/refill only for writing the answer book.

1. Multiple Choice questions.

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- The carbon atom in benzene ring are -----
 a) sp^3 hybridized b) sp hybridized
 c) sp^2 hybridized d) none of these
- Characteristics reactions of aromatic compounds are initiated by -----
 a) Electrophiles b) Nucleophiles
 c) Free radicals d) None of these
- For reactions of ethylbenzene, the ethyl group is considered -----
 a) Ortho director b) Ortho-para director
 c) Meta director d) Ortho-meta director
- Benzene reacts with conc. HNO_3 to give nitrobenzene in presence of -----
 a) $FeCl_3$ b) UV light
 c) conc. H_2SO_4 d) $AlCl_3$
- The electrophile in nitration of benzene is -----
 a) NO_2^- b) NO^+
 c) HNO_2^+ d) NO_2^+
- The hexagonal ring structure of benzene was proposed by -----
 a) Berzelius b) Kekule
 c) Friedel craft d) Bayer
- Which of the following reagent gives picric acid when reacts with phenol -----
 a) nitric acid b) sulfuric acid
 c) formaldehyde d) hydrogen
- Aniline reacts with nitrous acid at low temperature to give -----
 a) a nitrile b) N-nitrosamine
 c) a diazonium salt d) a nitrite salt

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- i) What are fats and oils? How we can check their quality?
- ii) Explain characteristics reactions of benzene
- iii) Explain the chemistry of Naphthalene.

3. Short answer questions (answer any seven).

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- i) What are phenols? How are they prepared?
- ii) Write the various reactions of fats and oils.
- iii) Write a note on aryl diazonium salts.
- iv) Write the methods of preparation of benzoic acid.
- v) What are cycloalkanes? Describe Baeyer's strain theory.
- vi) Explain the effect of electron donating and withdrawing groups on electrophilic aromatic substitution reactions with example.
- vii) Write a note on aromaticity of benzene.
- viii) Write the reactions of phenols.
- ix) Explain factors affecting acidity of aromatic carboxylic acids.
