

PARUL UNIVERSITY
FACULTY OF PHARMACY
B. Pharm. Winter 2019-20 Examination

Semester: 3
Subject Code: BP301T
Subject Name: Pharmaceutical Organic Chemistry II

Date: 19/11/2019
Time: 2.00 pm to 5.00 pm
Total Marks: 75

Instructions:

1. Figures to the right indicate maximum marks.
2. Make suitable assumptions wherever necessary.

Q.1 Multiple Choice Questions (MCQs) (1 Mark Each)**(20)**

1. For reaction of Ethylbenzene, the ethyl group is considered
 - a) ortho director
 - b) ortho-para director
 - c) meta director
 - d) ortho-meta director
2. The electrophile which is considered to be the active agent in the nitration of benzene is
 - a) NO_2^-
 - b) NO^+
 - c) NO_2^+
 - d) HNO_2^+
3. The carbon atoms in benzene ring are
 - a) sp hybridized
 - b) sp^3 hybridized
 - c) sp^2 hybridized
 - d) None of this
4. Aniline react with nitrous acid at low temperature to give
 - a) Benzene
 - b) a diazonium salt
 - c) a nitrile
 - d) a nitrile salt
5. Which of the following is the strongest acid ?
 - a) Ethanol
 - b) Phenol
 - c) Anisole
 - d) Benzoic acid
6. Sodium phenoxide react with CO_2 at 125°C under 5 atm pressure to give salicylic acid . This reaction is called as
 - a) Kolbe reaction
 - b) Wurtz reaction
 - c) Perkin reaction
 - d) Hell Volhard Zelinsky reaction
7. Which of the following will undergo substitution in the ortho and para position rather than in meta position
 - a) Nitrobenzene
 - b) Acetanilide
 - c) Benzoic acid
 - d) Benzaldehyde
8. Naphthalene undergoes reduction with H_2 in the presence of Pt catalyst at high temperature and pressure to give
 - a) Phthalic acid
 - b) Benzoic acid
 - c) Decaline
 - d) Tetralin
9. Benzene reacts with concentrated HNO_3 in the presence of concentrated H_2SO_4 to give nitrobenzene. This reaction is an example of
 - a) Electrophilic addition
 - b) Electrophilic substitution
 - c) Nucleophilic addition
 - d) Nucleophilic substitution
10. The degree of unsaturation of a fat can be determined by means of its
 - a) Iodine number
 - b) Saponification number
 - c) Octane number
 - d) Melting point
11. Saponification of a fat
 - a) Produce glycerol and soap
 - b) Always results in the formation of insoluble soap
 - c) Is used in the production of detergents
 - d) Is used in the production of Lactic acid
12. Phenol react with excess bromine water to give
 - a) o and p bromophenol
 - b) Bromobenzene
 - c) 2,4,6-Tribromophenol
 - d) m-bromophenol

