

University of Mumbai
Semester Theory Examination Second Half 2020
Question Bank
Section I: Multiple Choice Question (MCQ's)

Year/Semester: S.Y. B. Pharm./III
Subject: Pharmaceutical Organic Chemistry II
Subject Code: BP301T

1. Identify deactivating and meta directing group
 - a. Phenyl
 - b. Aldehyde
 - c. Alkoxy
 - d. Amine

2. Electrophile in Friedel Craft's Acylation is
 - a. R^+
 - b. RCO^+
 - c. RC^+
 - d. R^-

3. Identify the reagent to convert amines into amides
 - a. RX
 - b. Acetic acid
 - c. Sulphonyl chloride
 - d. Benzoyl chloride

4. Benzoic acid can be converted to m-nitrobenzoic acid by
 - a. Nitric acid
 - b. Nitric acid + Sulphuric acid
 - c. Sulphuric acid
 - d. Nitrous acid

5. Iodination of fatty acids can be done by
 - a. Potassium iodide
 - b. Potassium hydroxide
 - c. IBr
 - d. Potassium permagnet

6. Friedel crafts alkylation in naphthalene takes place at C-2 position due to
 - a. Formation of stable resonating structure
 - b. Stable hybrid structure
 - c. Less kinetic energy
 - d. No hindrance effects

7. Naphthalene on nitration results in to
- 2- Nitro naphthalene
 - 1-Nitro naphthalene
 - 4- Nito naphthalene
 - 3- Nitro naphthalene
8. Starting material for synthesis of naphthalene by Howarth method's is
- Benzene
 - Toluene
 - Aniline
 - Nitrobenzene
9. The cyclopropane is basically
- Planar in nature
 - Non planar in nature
 - Axial in plane
 - Perpendicular to plane
10. Addition of HBr to 1,1-dimethylcyclopropane gives
- 2-Bromo-2-methyl butane
 - 2-Bromo butane
 - 3-Bromo butane
 - 4-Bromobutane
11. What will the product formed when benzene reacts with Br₂ in CCl₄ medium?
- 3-Bromophenol
 - 4-Bromophenol
 - 3,5-Dibromophenol
 - No reaction
12. Identify the product of reaction between benzene and acetyl chloride
- Benzyl acetate
 - Ethylbenzene
 - Ethyl benzyl ketone
 - Benzylethane
13. Phenol upon reacting with chloroform and aqueous NaOH gives
- o- Hydroxy benzaldehyde
 - p-Hydroxy benzaldehyde
 - o,p-Dihydroxy benzaldehyde
 - m,p-Dihydroxy benzaldehyde
14. o-Phenol sulphonic acid formation can be carried out at
- 15-20° C
 - 35-50° C
 - 100° C
 - 200° C

15. Phthalic anhydride can be synthesized by using naphthalene and
- Vanadium pentoxide and air at 475°C
 - KMnO_4
 - NaOH
 - KOH
16. Torsional strain is also known as
- Angular strain
 - Molecular strain
 - Eclipsing strain
 - Atomic strain
17. Bromination of 4-methylacetanilide results in formation of
- 2-Bromo-4-methylacetanilide
 - 3-Bromo-4-methylacetanilide
 - 5-Bromo-4-methylacetanilide
 - 2,3-Dibromo-4-methylacetanilide
18. Oxidation of methylbenzene results in
- Phenol
 - Benzoic acid
 - Benzyl formate
 - Methyl benzoate
19. The strength of KOH required for determining Polenske's number is
- N/10 KOH
 - N/5 KOH
 - N/100 KOH
 - N/2 KOH
20. 1-Nitronaphthalene on oxidation with KMnO_4 gives
- Phthalic acid
 - 3-Nitro phthalic acid
 - Picolic acid
 - 2-Naphthol