

CVM UNIVERSITY

M.Sc. (INDUSTRIAL CHEMISTRY) Semester-I Examination-2021

Friday, 26th February - 2021

10:00 AM to 12:00 Noon

Industrial Organic Chemistry:[101310105]

Total Marks: 60

- Note: (1) Attempt all questions.
(2) Figures to the right indicate marks.

Q.1 (a) Answer the following multiple choice questions. (08)

- (1) The catalyst used for the conversion of Cyclo hexane into benzene is:
- Displacement reactions
 - Pd-C or selenium
 - Addition reactions
 - Rearrangements reactions
- (2) Boron trifluoride is used as a reagent in organic synthesis, and typically behave as a:
- Lewis Base
 - Lewis acid
 - Zwitterion
 - Amphoteric salt
- (3) There occurs the movement of an atom or a group from one atom to another within the molecule
- Displacement reactions
 - Elimination reactions
 - Addition reactions
 - Rearrangements reactions
- (4) NH₃ is the example of:
- Neutral electrophiles
 - Positive electrophiles
 - Neutral Nucleophiles
 - Positive Nucleophiles
- (5) Self-oxidation and reduction reaction is known as:
- Addition reaction
 - Disproportion reaction
 - Elimination reaction
 - Isomerization
- (6) Aldehyde or ketone having α -hydrogen atom undergo self-condensation is known as:
- Cannizzaro reaction
 - Aldol condensation
 - Dakin reaction
 - Wurtz reaction
- (7) Meerwein-Ponndorf-Verley (MPV) reduction in organic chemistry is the reduction of ketones and aldehydes to their corresponding alcohols utilizing the catalyst:
- DCC
 - Alkaline Hydrazine
 - H₂O₂, NaOH
 - Aluminium iso-propoxide
- (8) The replacement of an aldehyde or acetyl group present in phenolic aldehyde or ketone by hydroxyl group from hydrogen peroxide in presence of dil. NaOH is known as:
- Dakin reaction
 - Wurtz Fittig reaction
 - Leuckart Reaction
 - MPV reduction

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