ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

WORKSHEET-51(CLASS-12)

TOPIC- ALDEHYDE AND KETONE

SUBTOPIC-PREPARATION AND CHEMICAL REACTIONS

SUBJECT – CHEMISTRY DURATION – 30 mins



F.M. - 15 DATE -15.08.20

- 1.1 For cannizaro reaction the criteria is-
- a) Presence of alpha carbon b) absence of alpha hydrogen c) dilute base d) all of these
- 1.2 Aldehydes are reduced to-
- a) Primary alcoholb) Secondary alcohol c) Tertiary alcohold) Not possible
- 1.3 Aldehyde is more reactive than ketone, due to-
- a) Resonanceb) Steric effectd) Electronic effrctd) both b & c
- 1.4 Which of the following is anunsymmetrical ketone-
- a) 4-heptanoneb) Acetonec) Butanoned) 2-Pentanone
- 1.5 Dry distillation of calcium formate results in the formation of-
- a) Formaldehydeb) Acetaldehydec) Methaned) Acetone
- 1.6In base catalyzed reaction of carbonyl compound the catalyst-
- a) Increases the nucleophilic character of reagentb) Increases the electrophilic character of carbonyl compoundc) Acidic character of reagent d) both a and b
- 1.7 Tischenko reaction takes place through the transfer of _____ from complex anion.
- a) Hydrogen ion b) Hydride Ionc) Oxide ion d) None of these
- 1.8 lodoform test can be used to distinguish between-
- a) Ethanol and methanolb) Acetaldehyde and methanolc) Acetone and diethyl ketoned) All of the above
- 1.9 Which of the following will not give addition reaction with CH3MgBr in Dry ether?
- a) HCHOb) CH₃CHOc) CH₃CH₂CHOd) None of the above
- 1.10 On treating acetaldehyde with I2 and NaOH-

- a) Iodoform is obtained b) Black coloured precipitate is formedc) Yellow coloured has is formed d) Methanoic acid is obtained
- 1.11 Which of the following can undergo Tautomerism?
- a) Carbonic acidb) Ethanallc) Acetic acidd) Methanoic acid
- 1.12Aldehyde and ketone can be protected and deprotected by-
- a) Reactionwithalcohol b)Reactionwith water c) hydrolysisd) Reaction with alcohol and dry HCl
- 1.13Pinacol is a-
- a)Ketoneb) Viccinal di ol c) geminal di ol d) Ester
- 1.14Ethanal is prepared industrially by air oxidation of ethylene using palladium chloride as a catalyst and _____ as a promoter.
- a) PdCl₂b) Cu₂Cl₂c) CuCl₂d) PbCl₂
- 1.15 Nucleophilic attack of carbonyl compounds depend on-
- a) Acidb) Base c) Both a and b d) Electrophilicity of the carbonyl carbon

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