ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

FOR GOD AND COUNTRY

SOLUTION-52(CLASS-12)

TOPIC- ALDEHYDE AND KETONE

SUBTOPIC-PREPARATION AND CHEMICAL REACTIONS

SUBJECT – CHEMISTRY **F.M. - 15**

DURATION – 30 mins **DATE -17.08.20**

1.1 **Stephen's reduction is used to convert an alkyl nitrile into-**

a) Aldehyde b) Ketonec) Alcohol d) Carboxylic acid

Ans. a

1.2 Ketones **are reduced to-**

a) Primary alcoholb) Secondary alcohol c) Tertiary alcohold) Not possible

Ans. b

1.3 **HIO4 can oxidise-**

a) Ketoneb) Ether d) Vic di old) gem di ol

Ans. d

1.4**Rosenmund's reduction is used to prepare aldehyde from-**

a) 4-heptanoneb) Acetonec) Alkyl nitriled) Alkanoyl chloride

Ans. d

1.5 **Dry distillation of calcium acetate results in the formation of-**

a) Formaldehydeb) Acetaldehydec) Methaned) Acetone

Ans. d

1.6**In Wacker process, along with PdCl2, air the other reagent used-**

a) Fe_2O_3 b) None of these c) Fe_2O_3 d) $CuCl_2$

Ans. d

1.7 **Acetaldehyde can be identified by-**

a) All of these options are correct b) Tollen's reagent c) Brady's reagent d) Iodoform reaction

Ans. a

1.8 **Iodoform test can be used to distinguish between-**

a) Ethanol and Ethanalb) Acetaldehyde and Acetone c) Acetone and diethyl ketoned) All of the above

Ans. c

1.9 **Which of the following will not give addition reaction with CH3MgBr in Dry ether?**

a) HCHOb) CH_3CHOc) CH_3CH_2CHOd) CH3OCH3

Ans. f

1.10 **On treating acetaldehyde with I2 and NaOH-**

a) Iodoform is obtaioned b) Black coloured precipitate is formedc) Yellow coloured has is formed d) Methanoic acid is obtained

Ans. a

1.11 **Which of the following is a terminal functional group?**

a) Alkene b) Ether c) Alcohol d) Carboxylic acid

Ans. d

1.12**Aldehyde and ketone can be protected and deprotected by-**

a) Reactionwithalcohol b)Reactionwith water c) hydrolysisd) Reaction with alcohol and dry HCl

Ans. d

1.13**Pinacolone is a-**

a)Ketoneb) Viccinal di ol c) geminal di ol d) Ester

Ans. a

1.14**Chemical reaction of Aldehyde and ketone with H2O leads to formation of-**

a) alcohol b) stable Viccinal diolc) unstable geminal diol d) Stable product

Ans. c

1.15 T**ertiary alcohols on reaction with Cu at 573K produces-**

a) Aldehyde b) ketone c) Alkyne d) Alkene

Ans. d

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