



F.M. - 15 DATE -27.07.20

1.1 Acetone is treated with excess of ethanol in the presence of hydrochloric acid. The product obtained is-

a)
$$(CH_3)_2C < OH \\ OC_2H_{5b} OC_2H_5 OC_2H$$

Ans.b

1.2 Clemmensen reduction of a ketone is carried out in the presence of which of the following?

a) H_2 and Pt as catalyst b) Glycol with KOH c) Zn-Hg with HCld) LiAlH₄

Ans. c

1.3 Identify the product in the reaction-

 $PhC \equiv CMe \xrightarrow{H_3O^+, Hg^{2+}} \rightarrow$

a) PhCH₂CH₂CHO b) PhCOCH₂CH₃d) PhCH₂COCH₃d) PhCOCOMe

Ans. b

1.4 The compound which forms acetaldehyde when heated with dilute NaOH is-

a) 1-chloro ethane b) 1, 1-dichloro ethane c) 1, 2-dichloro ethane d) 1, 1, 1 -trichloro ethane

Ans. b

1.5 An organic compound X is oxidized by using acidified K₂Cr₂O₇. The product obtained reacts with phenyl hydrazine but does not answer silver mirror test. The possible structure of X is-

a) (CH₃)₂CHOH b) CH₃CHO c) CH₃CH₂OHd) Acetone

Ans. a

1.6 Reaction of ethyl formate with limited supply of CH₃MgI followed by hydrolysis gives-

a) Ethanol b) n-propyl alcohol c) Acetaldehyde d) Isopropyl alcohol

Ans. c

1.7 For making distinction between 2-pentanone and 3-pentanone the reagent to be employed is-

a) K₂Cr₂O₇/H₂SO₄b) Zn-Hg/HCl c) SeO₂d) Iodine/NaOH

Ans. d

1.8 In which of the following reactions new carbon-carbon bond is not formed-

a) Cannizzaro reaction b) Wurth reaction c) Aldol condensation d) Friedel-Crafts reaction

Ans. a

1.9 A strong base can abstract an alpha-hydrogen from –

a) Amine b) Alkane c) Alkene d) Ketone

Ans. d

1.10 Reduction of aldehydes and ketones into hydrocarbons using zinc amalgam and ${\rm conc}_{\underline{\text{-}}}$ HCl is called –

a) Cope reduction b) Dow reductionc) Wolff-Kishner reduction d) Clemmensen reduction

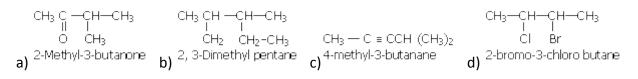
Ans. d

1.11 The product formed in Aldol condensation is -

a) a beta-hydroxy aldehyde or a beta-hydroxy ketone b) an alpha-hydroxy aldehyde or ketone c) an alpha, beta unsaturated esterd) a beta-hydroxy acid

Ans. a

1.12The incorrect IUPAC name is-



Ans. a

1.13Formalin is an aqueous solution of-

a) Formic acid b) Acetaldehyde c) Formaldehyde d) Ethanoic acid

Ans. c

1.14Carbonyl groups add flavor and fragrance to nature in the forms given below except-

a) Vanillinb) Salicylaldehyde c) Formic acidd) Cinnamaldehyde

Ans. c

1.15The geometry of the carbonyl group is-

a) Trigonal planar b) Pyramidal c) Square planer d) Linear

Ans. a

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