Test Chemistry الملف
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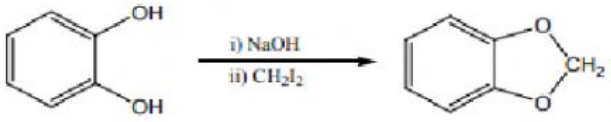
$HO\,CH_2\,CH_2 - OH$ on heating with periodic acid gives

a) methanoic acid b) Glyoxal c) methanal d) CO_2

Which of the following compound can be used as artifreeze in automobile radiators?

a) methanol b) ethanol c) Neopentyl alcohol d) ethan -1, 2-diol

The reactions



is an example of

a) Wurtz reaction b) cyclic reaction c) Williamson reaction d) Kolbe reactions

One mole of an organic compound (A) with the formula C_3H_8O reacts completely with two moles of HI to form X and Y. When Y is boiled with aqueous alkali it forms Z. Z answers the iodoform test. The compound (A) is

a) propan – 2-ol b) propan -1-ol c) ethoxy ethane d) methoxy ehane

Among the following ethers which one will produce methyl alcohol on treatment with hot HI?

a) $(H_3C)_3C-O-CH_3$ b) $(CH_3)_2-CH-CH_2-O-CH_3$

c) $CH_3(CH_2)_3-O-CH_3$ d) $CH_3-CH_2-\underset{\displaystyle CH_3}{\underset{|}{CH}}-O-CH_3$

. Assertion : Phenol is more acidic than ethanol

Reason: Phenoxide ion is resonance stabilized

a) both assertion and reason are true and reason is the correct explanation of assertion.

b) both assertion and reason are true but reason is not the correct explanation of assertion.

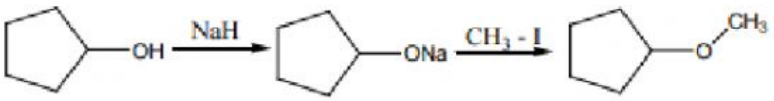
c) assertion is true but reason is false

d) both assertion and reason are false.

. In the reaction Ethanol $\xrightarrow{PCl_5}$ X $\xrightarrow{alc.KOH}$ Y $\xrightarrow[298K]{H_2SO_4/H_2O}$ Z. The 'Z' is

a) ethane b) ethoxyethane c) ethylbisulphite d) ethanol

. The reaction



Can be classified as

a) dehydration b) Williamson alcoholsynthesis

c) Williamson ether synthesis d) dehydrogenation of alcohol

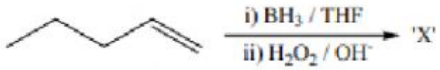
An alcohol (x) gives blue colour in Victormeyer's test and 3.7g of X when treated with metallic sodium liberates 560 mL of hydrogen at 273 K and 1 atm pressure what will be the possible structure of X?

a) $CH_3CH(OH)CH_2CH_3$ b) $CH_3 - CH(OH) - CH_3$

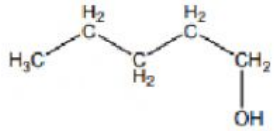
b) $CH_3\ C(OH)(CH_3)_2$ d) $CH_3 - CH_2 - CH(OH) - CH_2 - CH_3$

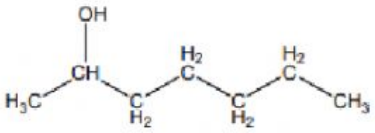
Which of the following compounds on reaction with methyl magnesium bromide will give tertiary alcohol.

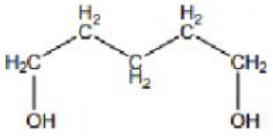
a) benzaldehyde b) propanoic acid c) methyl propanoate d) acetaldehyde



The X is

a) 

b) 

c) 

d) None of these

In the reaction sequence, Ethene $\xrightarrow{HOCl}$ A $\xrightarrow{X}$ ethan -1, 2 - diol . A and X respectively are

a) Chloroethane and NaOH b) ethanol and H_2SO_4

c) 2 – chloroethan -1-ol and $NaHCO_3$ d) ethanol and H_2O

Which one of the following is the strongest acid

a) 2 - nitrophenol b) 4 – chlorophenol c) 4 – nitrophenol d) 3 – nitrophenol

. Isopropylbenzene on air oxidation in the presence of dilute acid gives

a) C_6H_5COOH b) $C_6H_5COCH_3$ c) $C_6H_5COC_6H_5$ d) $C_6H_5 - OH$

. Assertion : Phenol is more reactive than benzene towards electrophilic substitution reaction

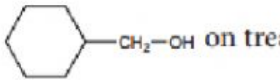
Reason : In the case of phenol, the intermediate arenium ion is more stabilized by resonance.

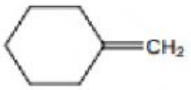
a) if both assertion and reason are true and reason is the correct explanation of assertion.

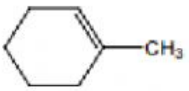
b) if both assertion and reason are true but reason is not the correct explanation of assertion.

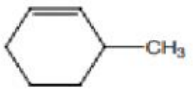
c) assertion is true but reason is false

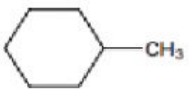
d) both assertion and reason are false.

 on treatment with Con H_2SO_4, predominately gives

a) 

b) 

c) 

d) 

Carbolic acid is

a) Phenol b) Picric acid d) benzoic acid d) phenylacetic acid

Which one of the following will react with phenol to give salicyladehyde after hydrolysis.

a) Dichloro methane b) trichloroethane c) trichloro methane d) CO_2

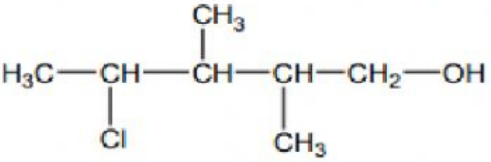
$(CH_3)_3$ - C - CH(OH) $CH_3 \xrightarrow{Con\ H_2SO_4}$ X (major product)

a) $(CH_3)_3$ CCH = CH_2

b) $(CH_3)_2$ C = C $(CH_3)_2$

c) CH_2 = C$(CH_3)CH_2$ - CH_2 - CH_3

d) CH_2 = C (CH_3) - CH_2 - CH_2 - CH_3

). The correct IUPAC name of the compound, 

a) 4 – chloro – 2,3 – dimethyl pentan – 1-ol

b) 2,3 – dimethyl – 4- chloropentan -1-ol

c) 2,3,4 – trimethyl – 4- chlorobutan -1-ol

d) 4 – chloro – 2,3,4 – trimethyl pentan – 1-ol

. Williamson synthesis of preparing dimethyl ether is a / an /

a) SN^1 reactions b) SN^2 reaction

c) electrophilic addition d) electrophilic substitution

. On reacting with neutral ferric chloride, phenol gives

a) red colour b) violet colour c) dark green colour d) no colouration.