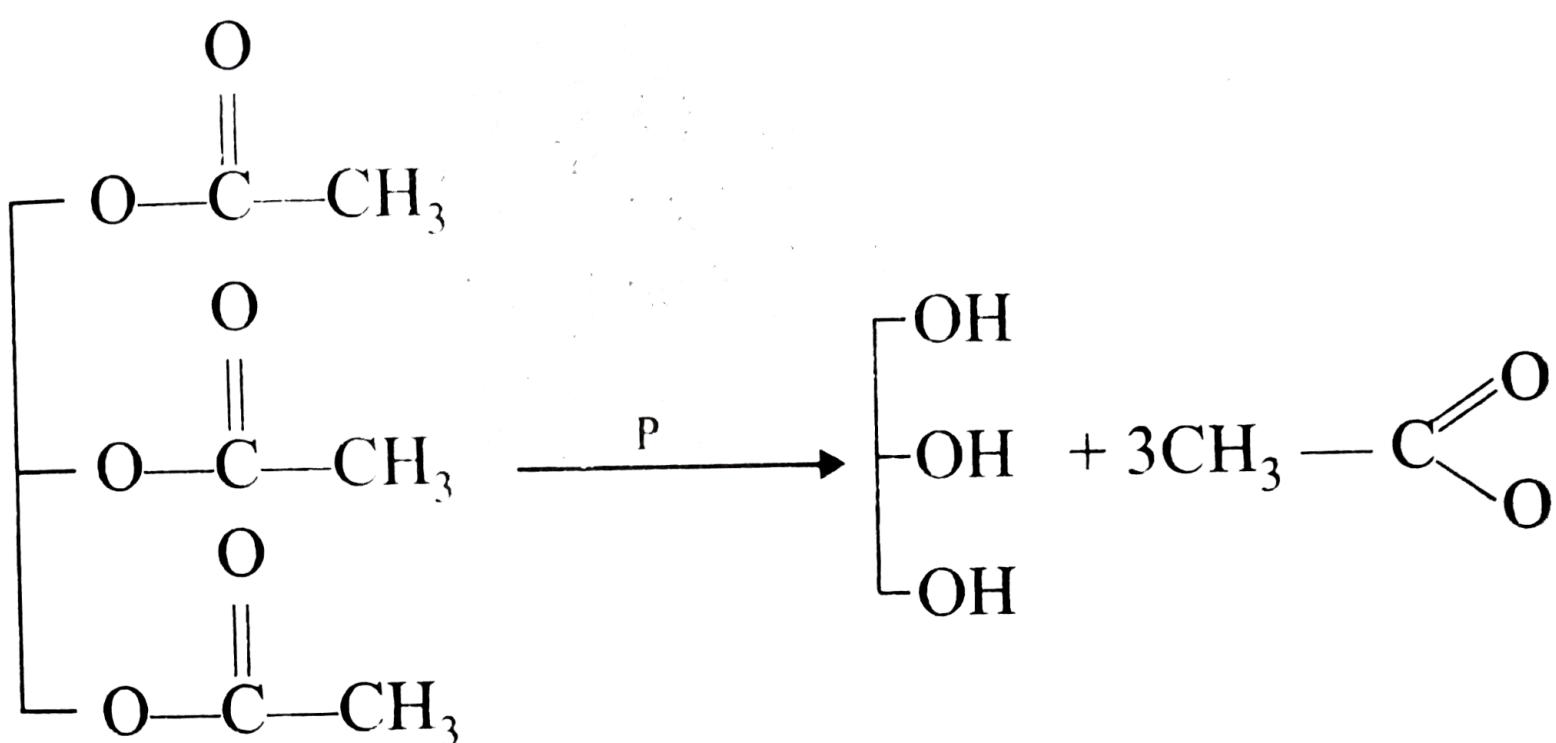


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Q-1 - 12662316

Reagent *P* in the given reaction is :

(A) LiAlH_4 (B) NaBH_4 (C) $\text{DIBA1} - \text{H}$ (D) OH^-

CORRECT ANSWER: D

SOLUTION:

As this is alkaline hydrolysis.

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Q-2 - 12662317

Propene, $CH_3 - CH = CH_2$, can be converted to 1-propanol by oxidation. Which set of reagents among the following is ideal to effect the conversion?

- (A) Alkaline $KMnO_4$
- (B) B_6H_6 and alkaline H_2O_2
- (C) O_3 / Zn dust
- (D) $OsO_4 / NaHSO_3$

CORRECT ANSWER: B

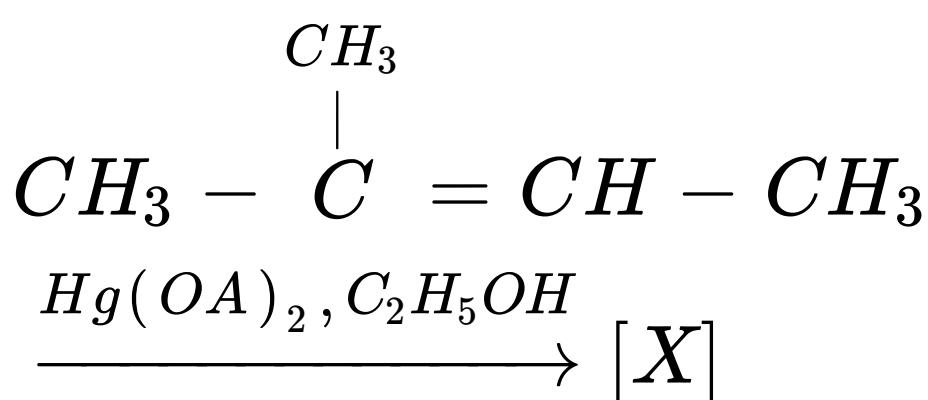
SOLUTION:

Diborane H_2O_2 / OH – gives anti-Markownikoff addition of $H - OH$

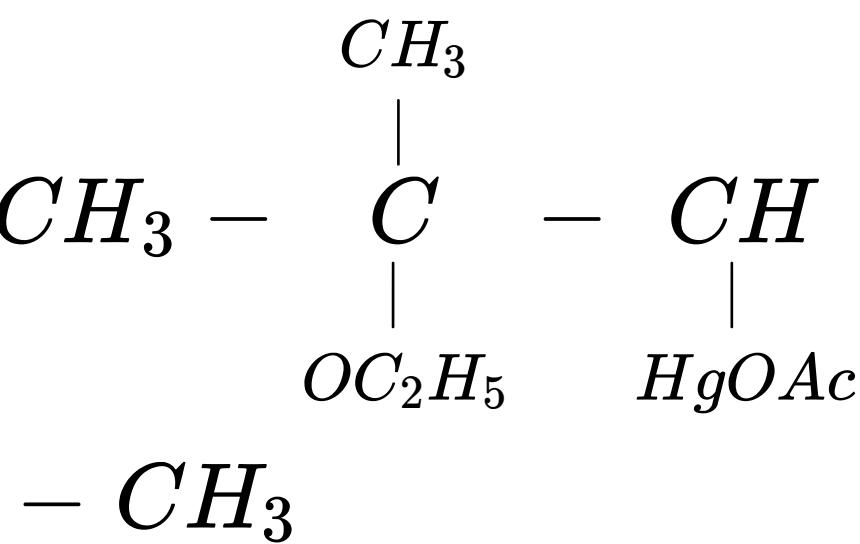
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Q-3 - 12662321

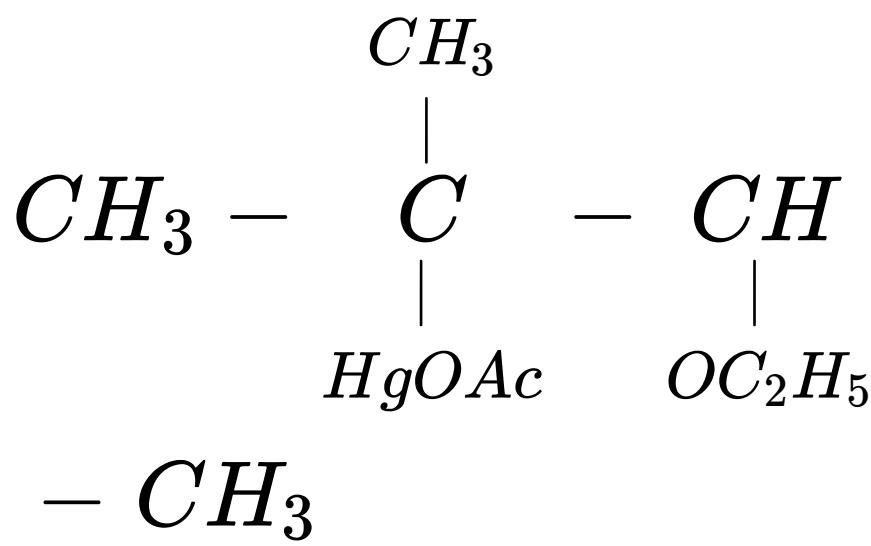
Product [X] of the reaction is



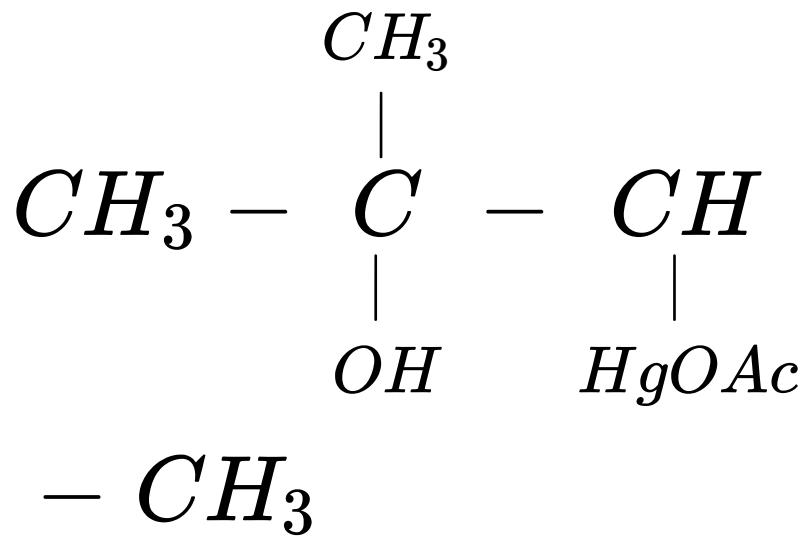
(A)



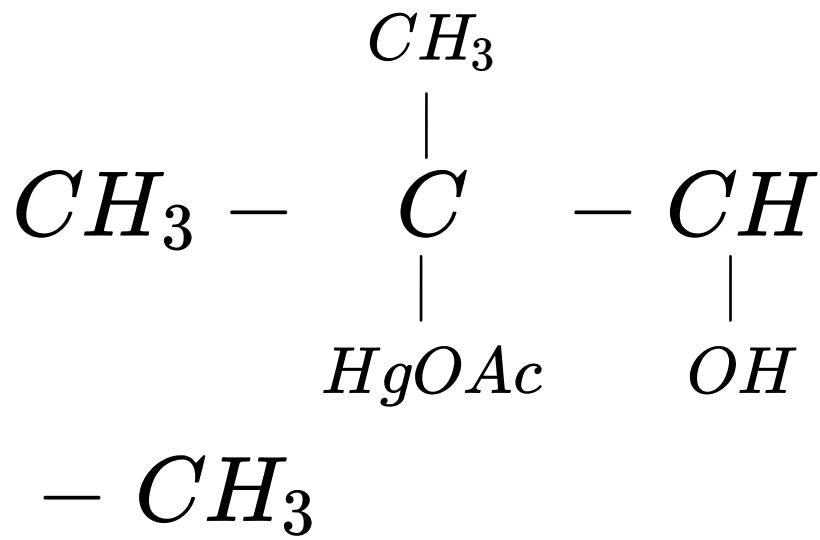
(B)



(C)

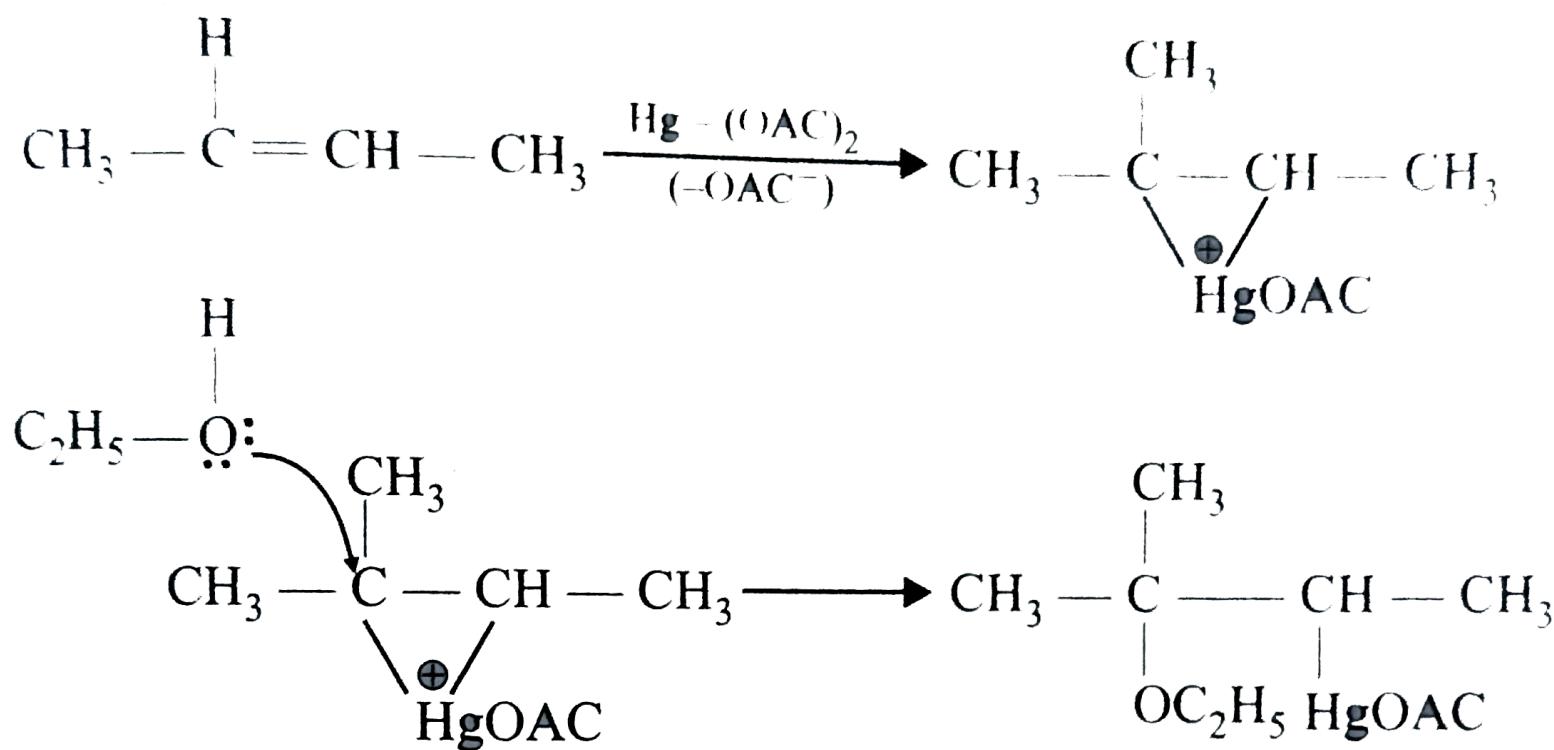
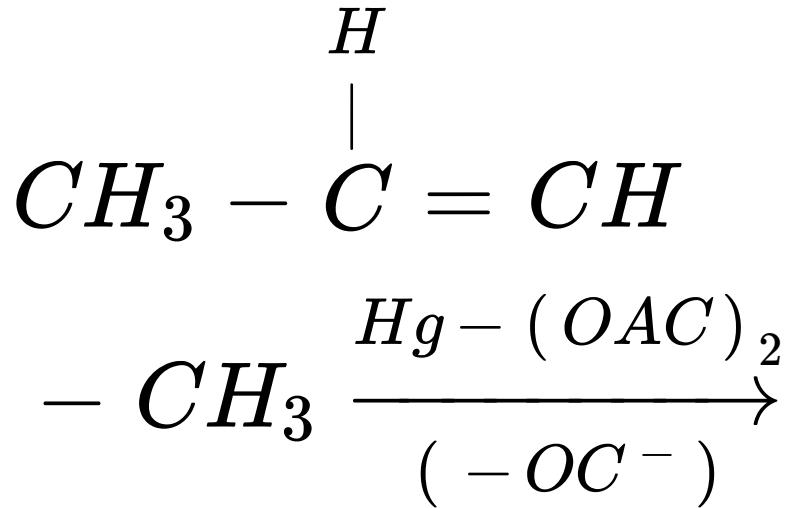


(D)



CORRECT ANSWER: A

SOLUTION:



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Q-4 - 12662324

Isobutyl alcohol as prepared from the reaction of

(A) CH_3CH_2MgBr and CH_3CHO

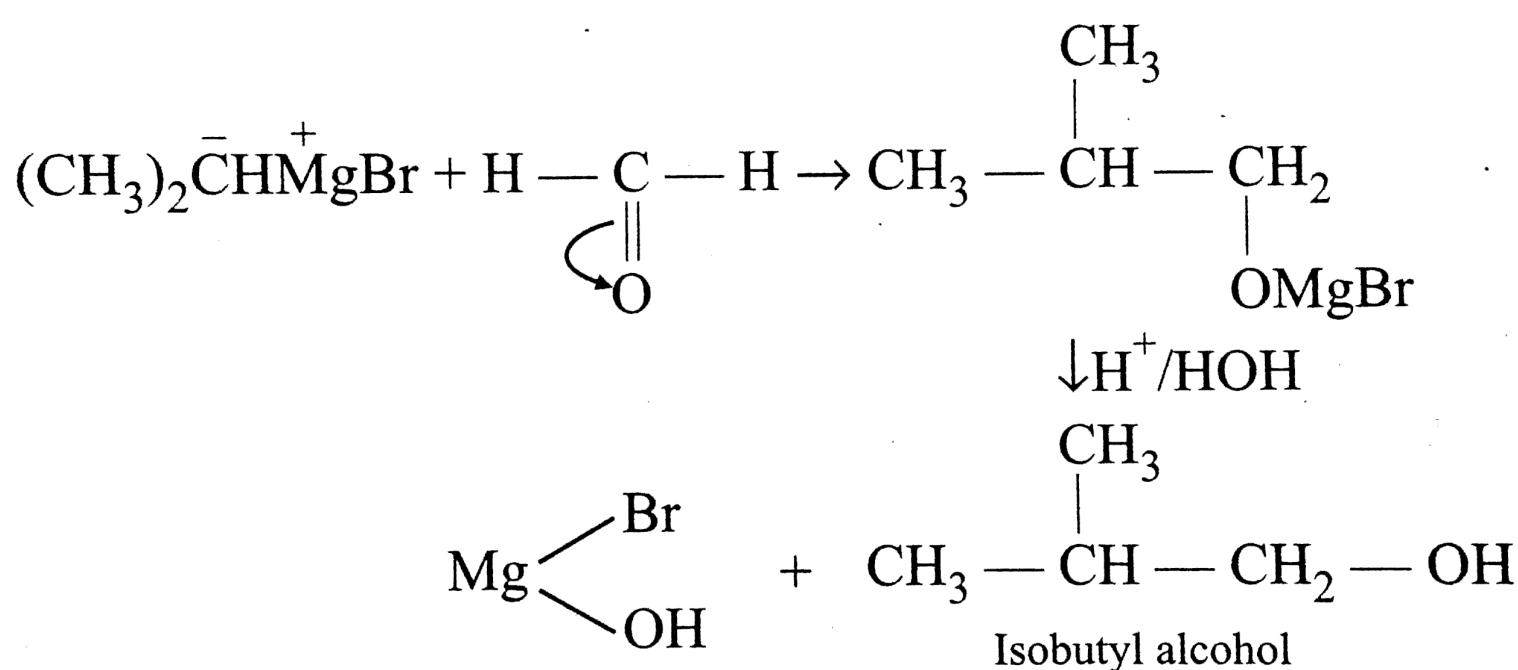
(B) CH_3MgBr and CH_3CH_2CHO

(C) $(CH_3)_2CHMgBr$ and $HCHO$

(D) CH_3MgBr and CH_3COCH_3

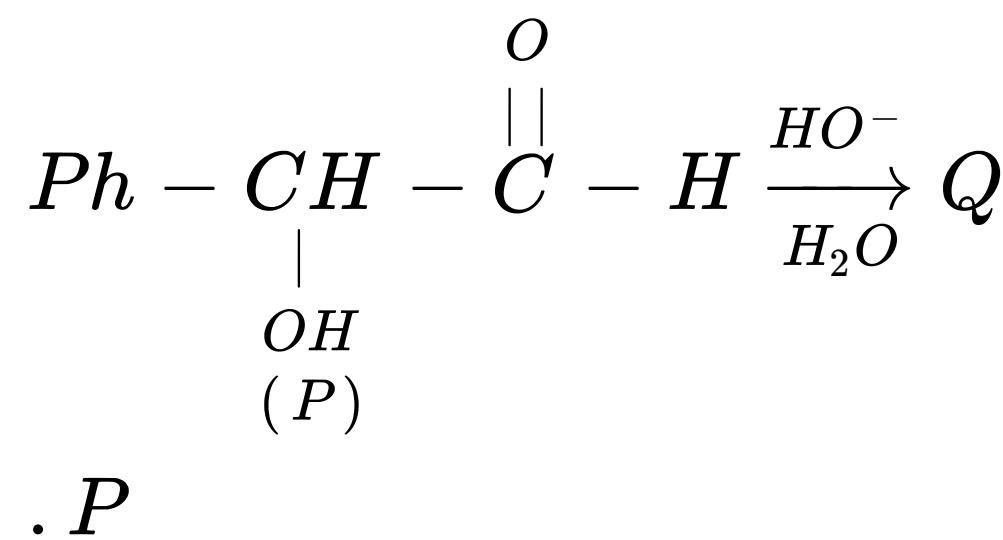
CORRECT ANSWER: C

SOLUTION:



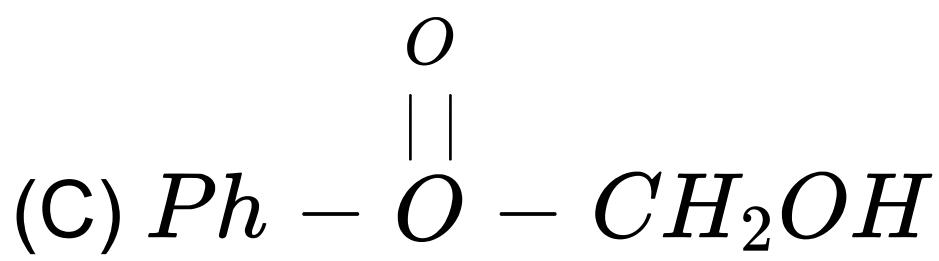
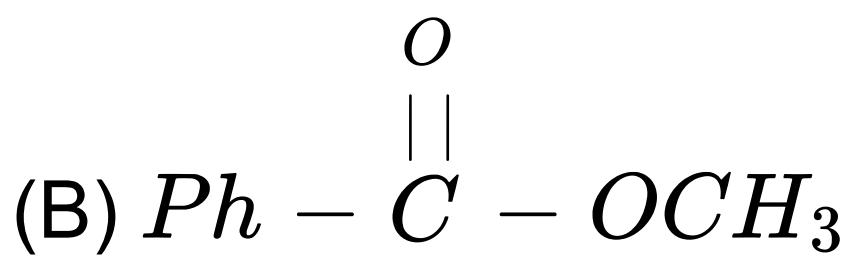
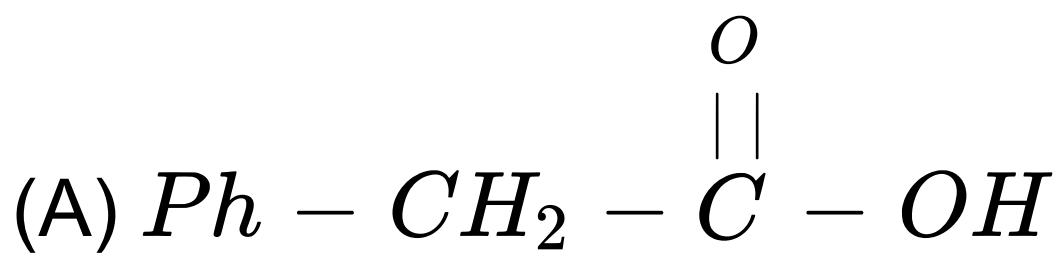
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Q-5 - 12662365

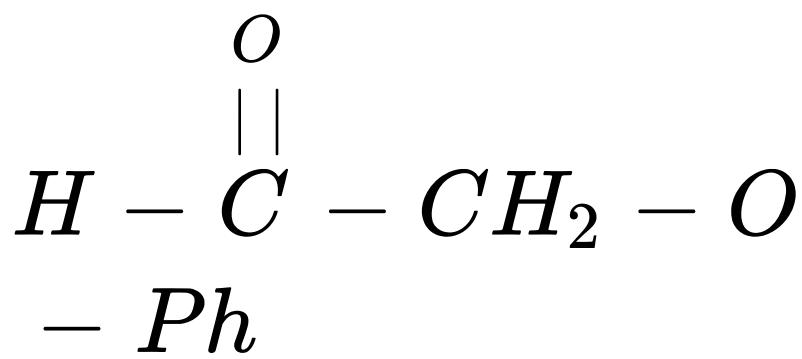


and

and Q are isomers. Identify Q

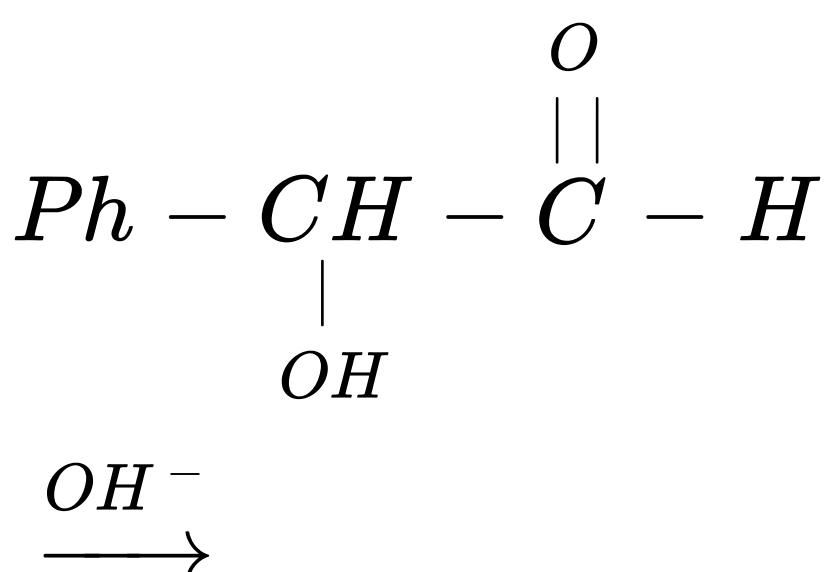


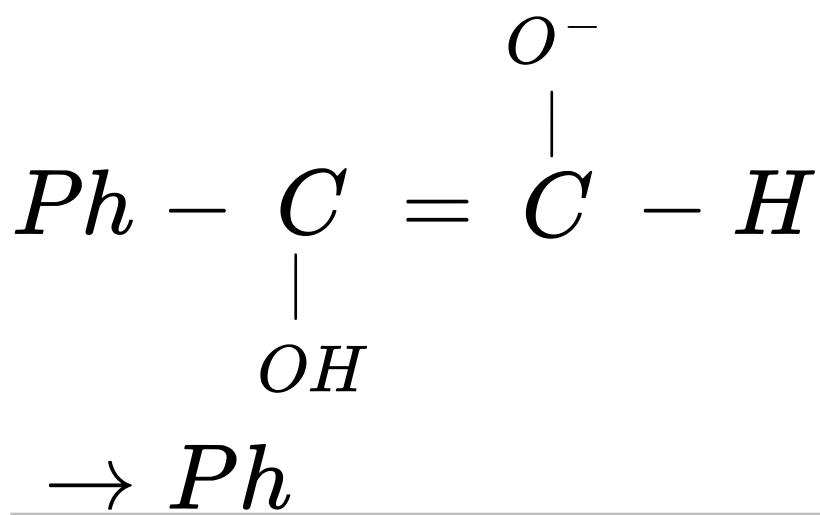
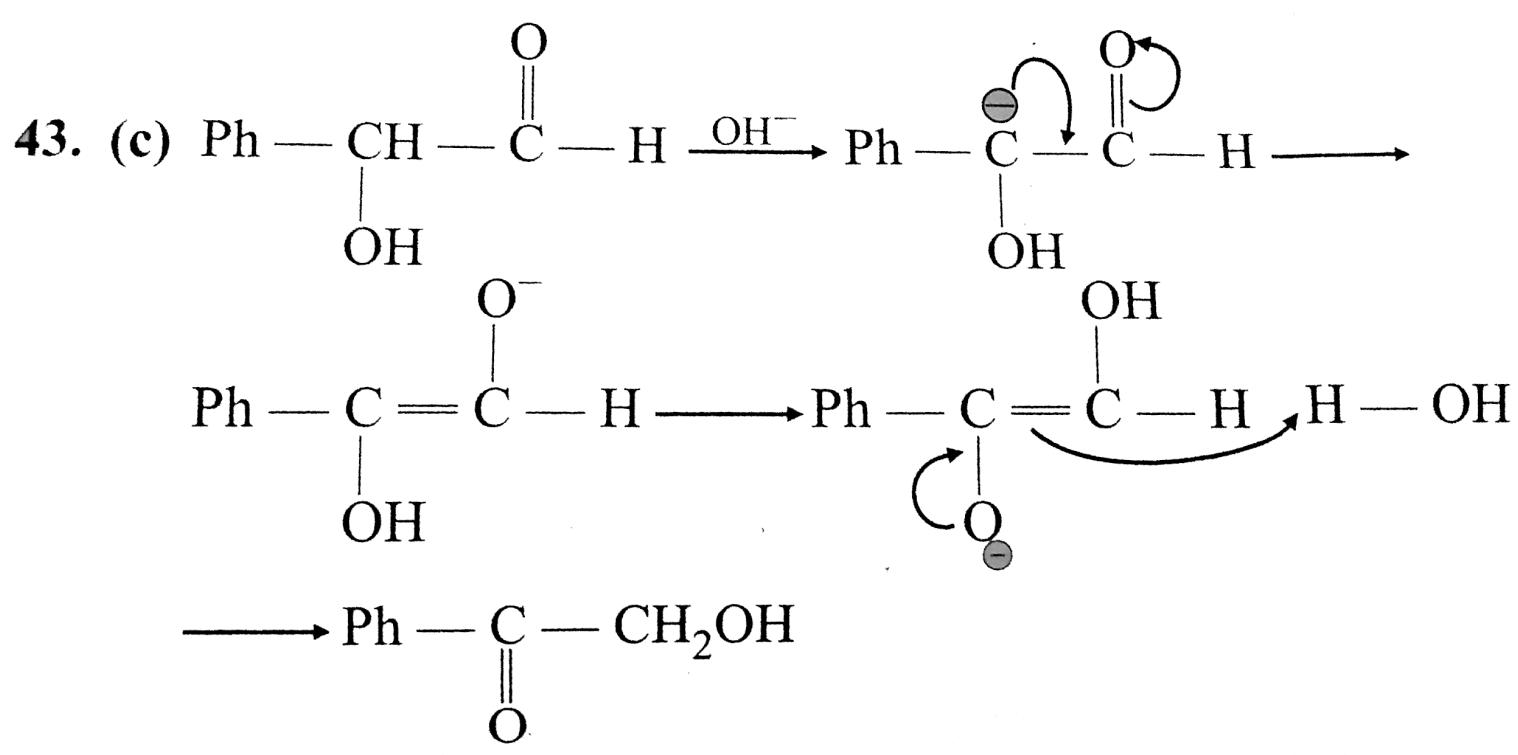
(D)



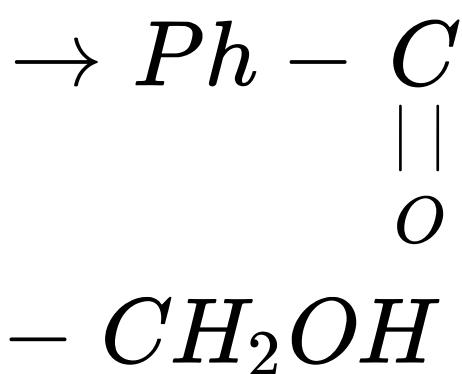
CORRECT ANSWER: C

SOLUTION:





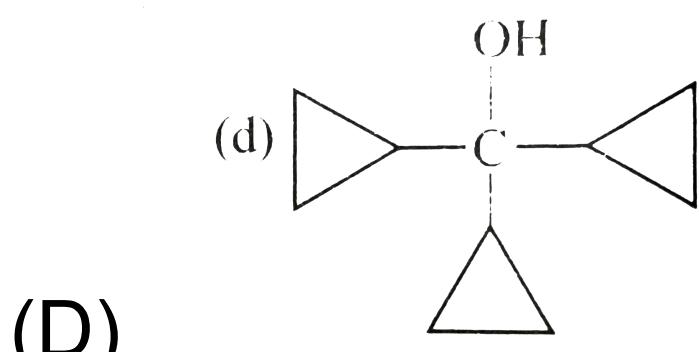
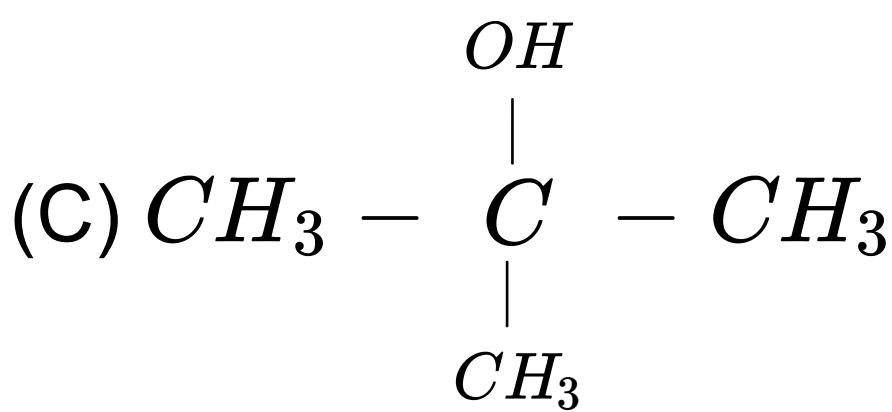
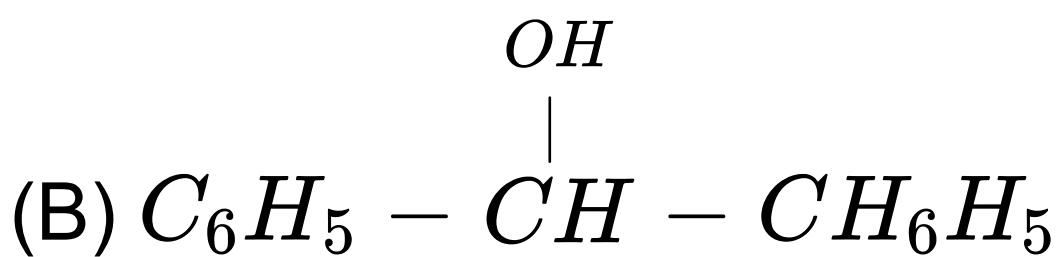
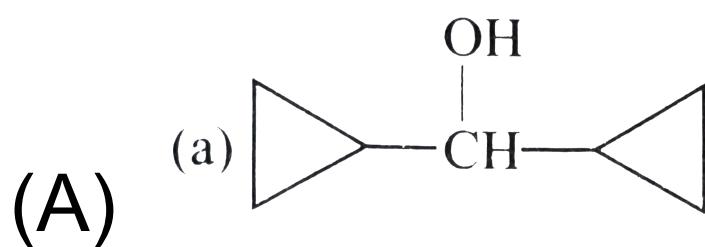
?



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Q-6 - 12662366

Which one of the following will be most reactive for S_N1 reaction?



CORRECT ANSWER: D

SOLUTION:

According to carbocation stability

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Q-7 - 12662367

The compound that reacts faster with Lucas reacgent (conc. $HCl + ZnCl_2$) at room temperature is

(A) butan-1-ol

(B) butan-2-ol

(C) 2-methalpropan-1-ol

(D) 2-Methylpropan-2-ol

CORRECT ANSWER: D

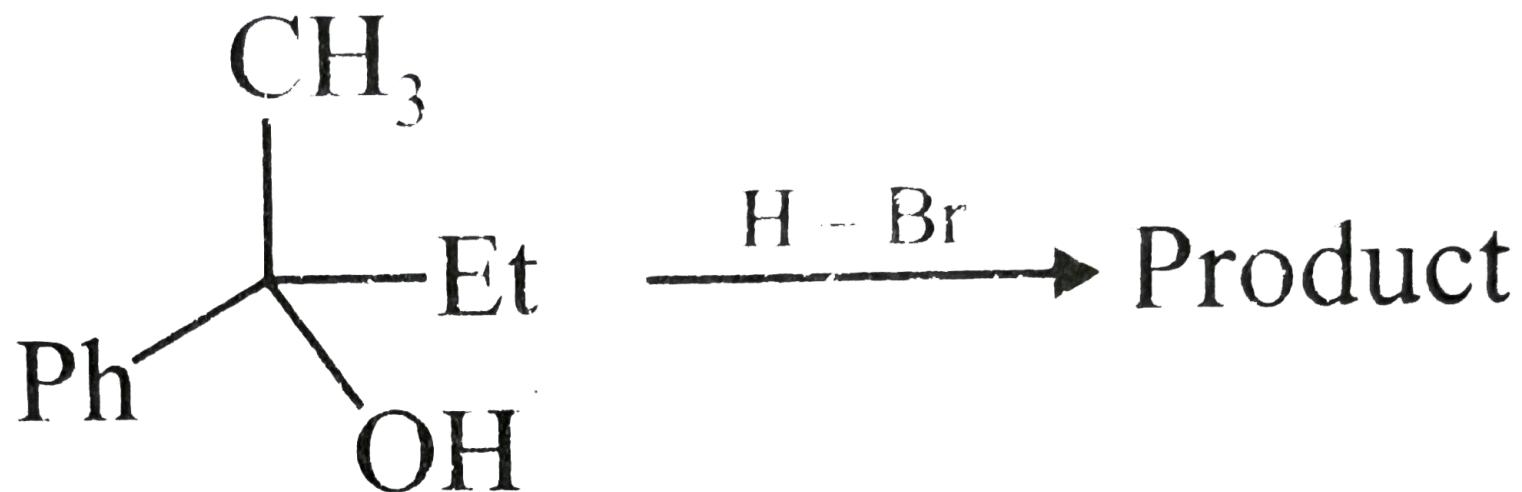
SOLUTION:

Tertiary alcohols react faster with Lucas reagent followed by 2 and 1 alcohols.

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Q-8 - 12662368

Which describes the best stereochemical aspects of the following reaction?



(A) Inversion of configuration occurs at the carbon undergoing substitution.

(B) Retention of configuration occurs at the carbon

undergoing substitution.

(C) Racemization occurs at the carbon undergoing

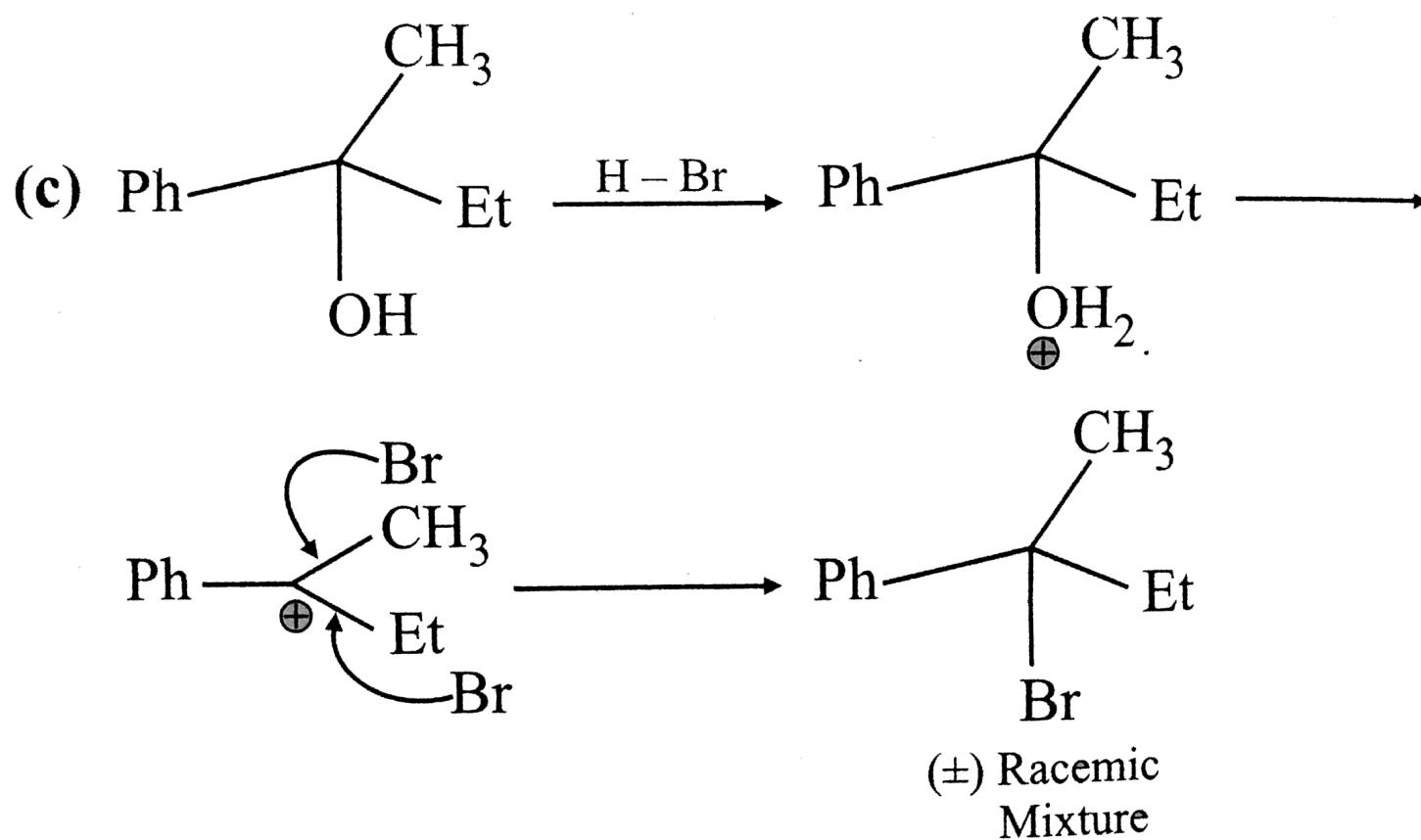
substitution.

(D) The carbon undergoing substitution is not

stereogenic.

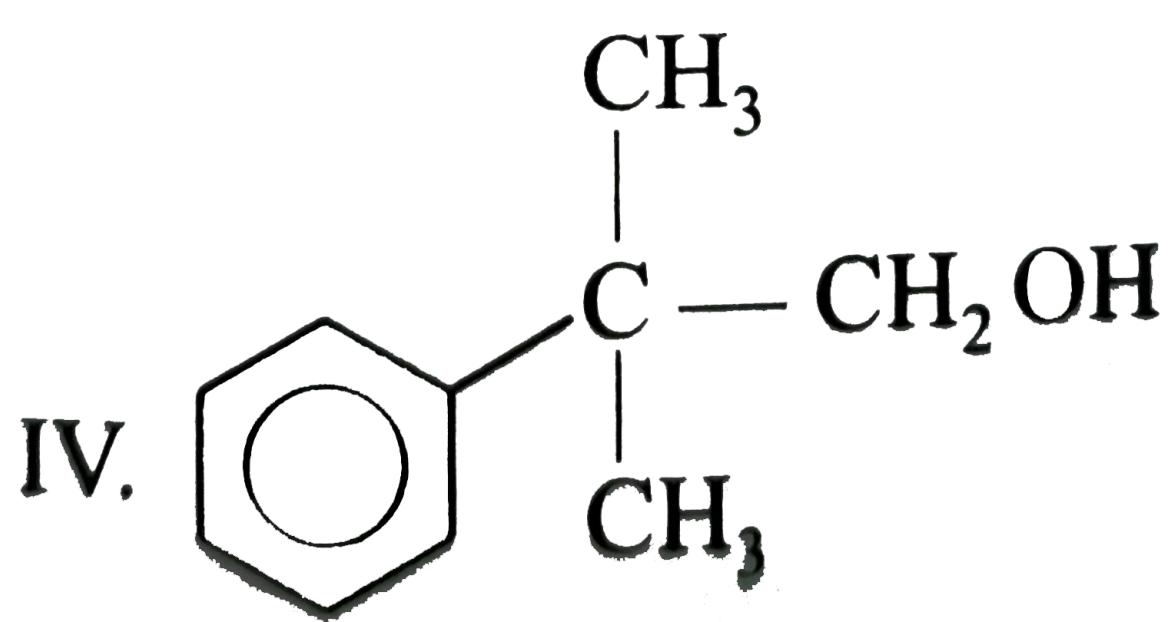
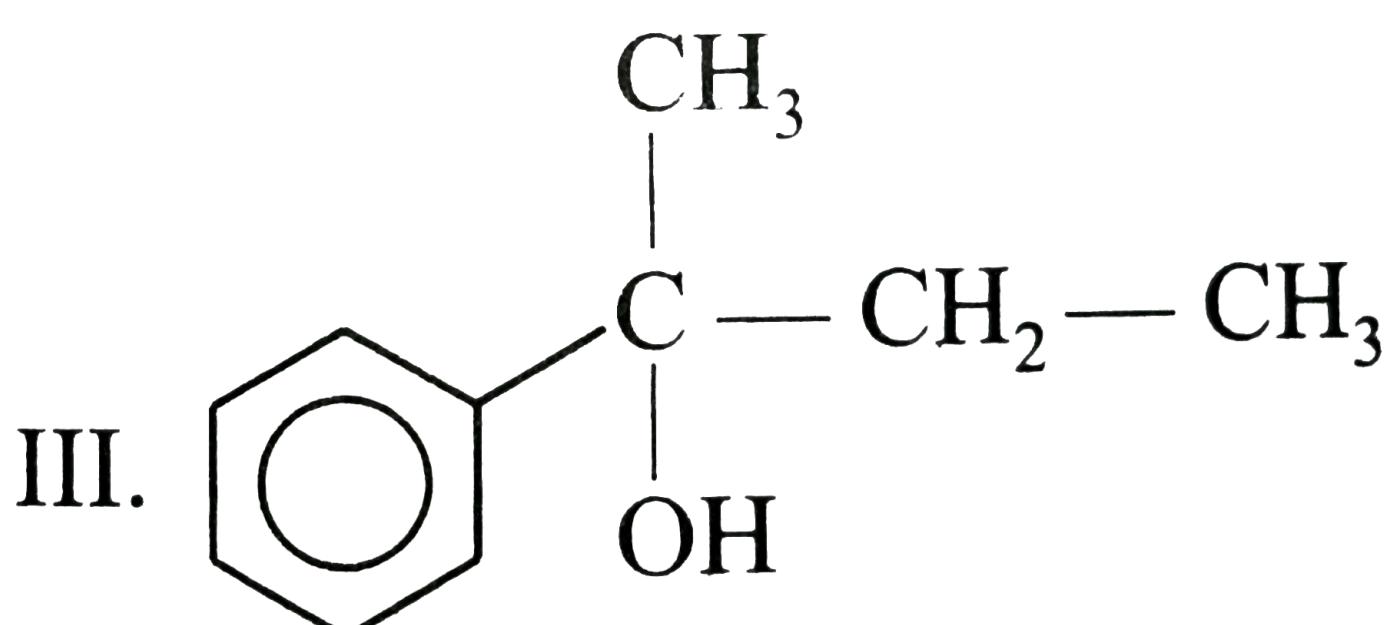
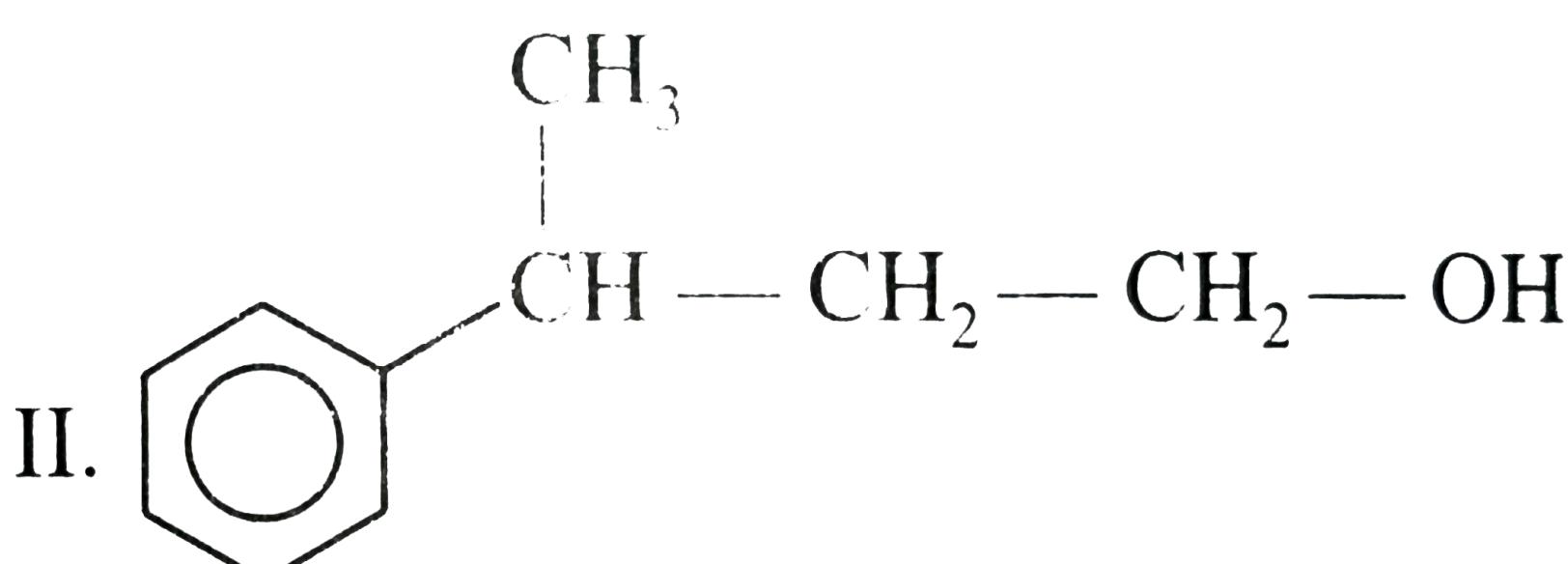
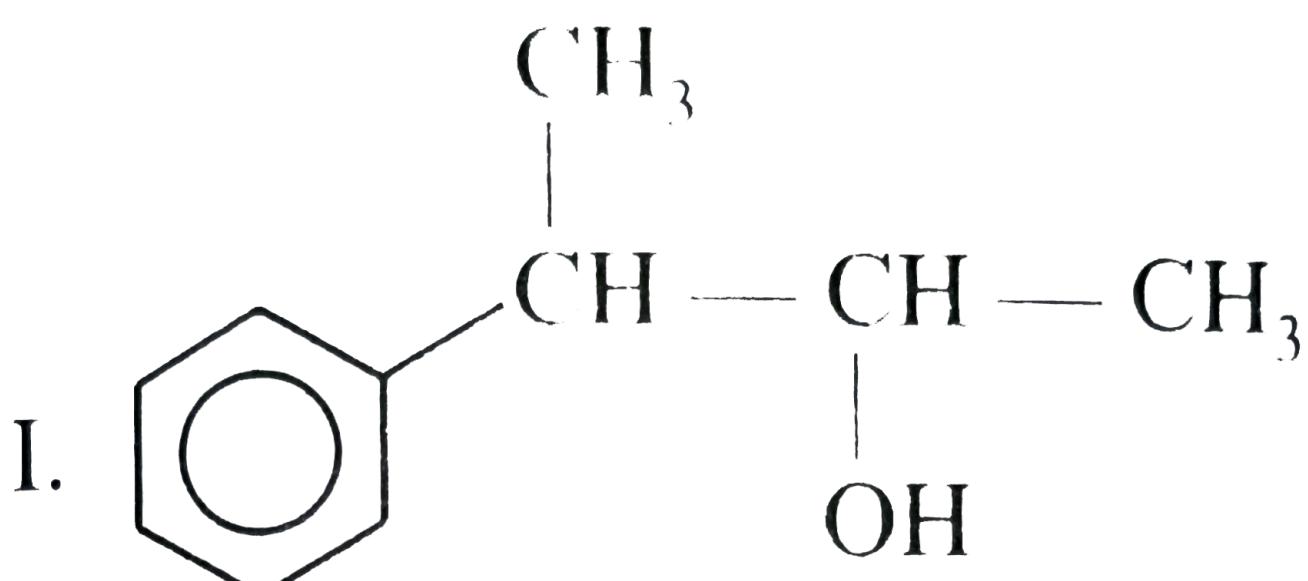
CORRECT ANSWER: C

SOLUTION:



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The relative rate of acid catalysed dehydration of following alcohols would be



I.

II.



III.





IV.

(A) $III > I > IV > II$

(B) $III > IV > I > II$

(C) $I > III > IV > II$

(D) $III > IV > I > II$

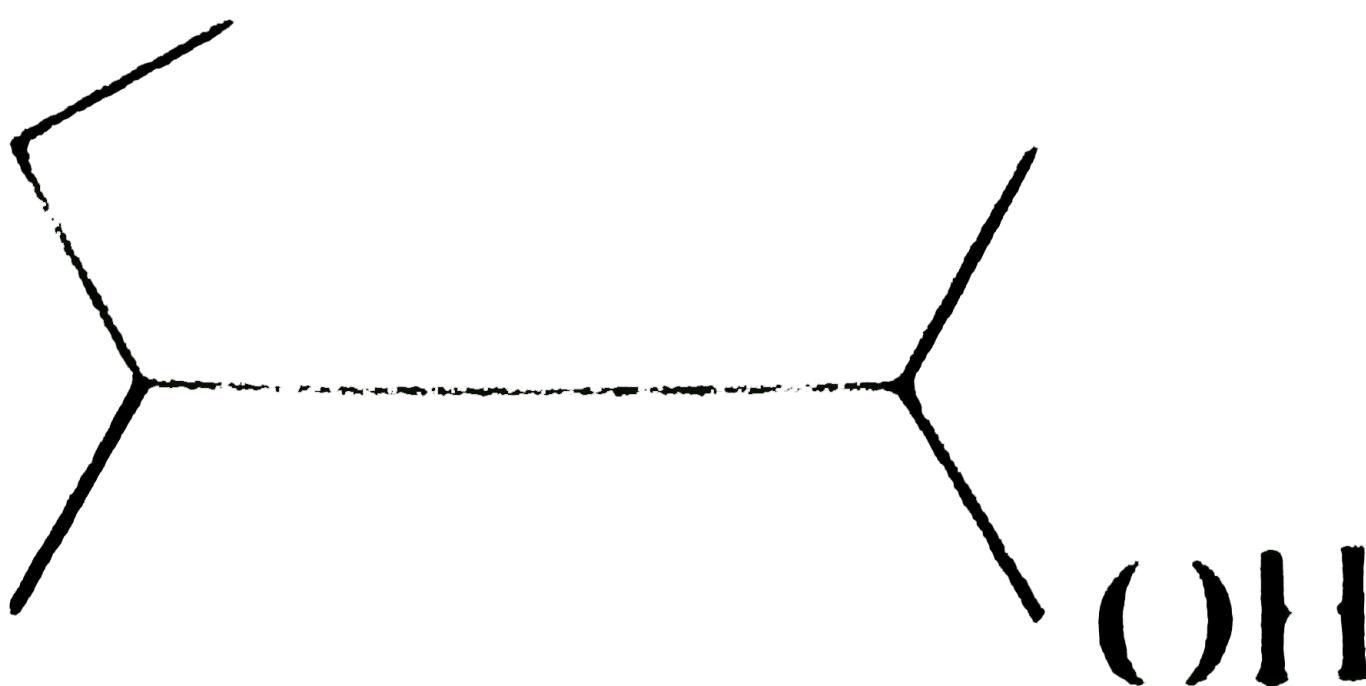
CORRECT ANSWER: A

SOLUTION:

According to stability of carbonocation.

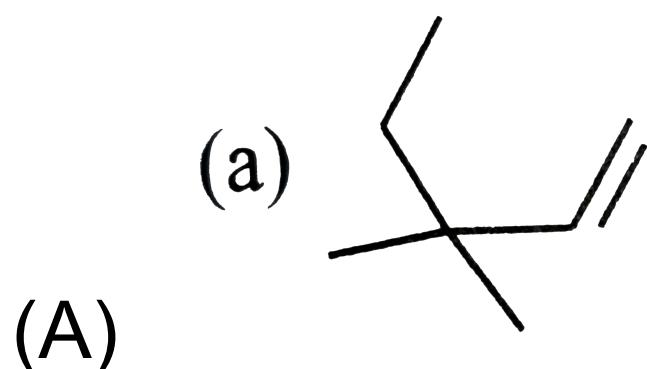
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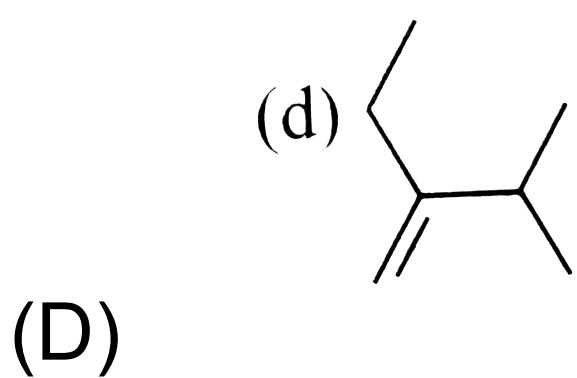
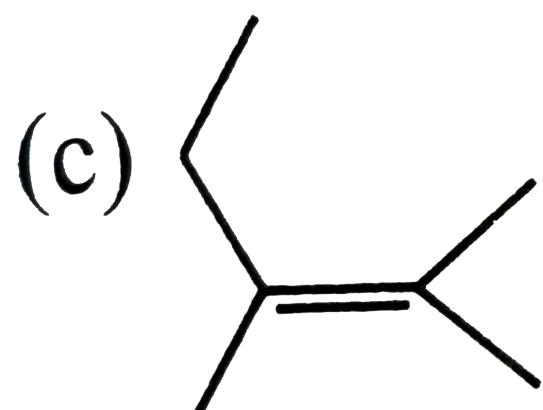
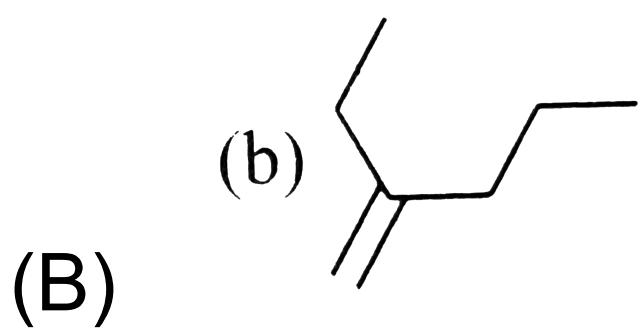
Q-10 - 12662373



$\xrightarrow{\text{Conc. } H_2SO_4}$

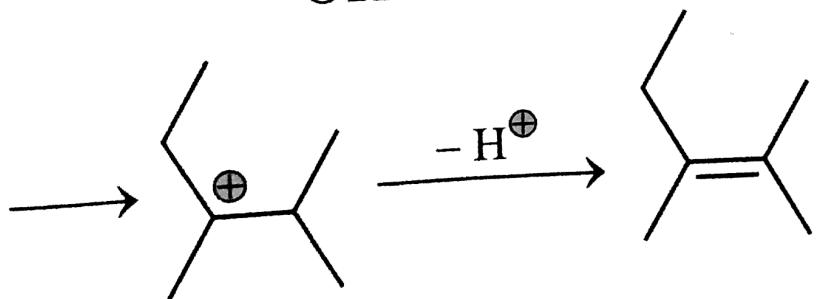
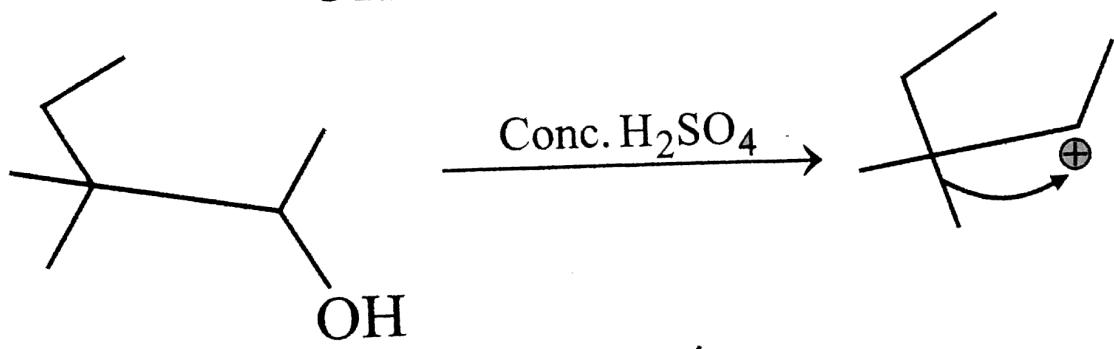
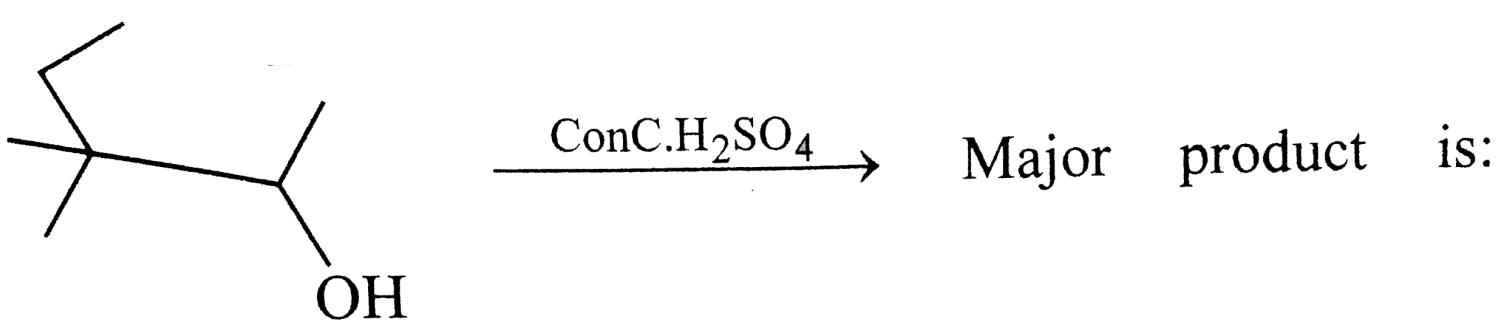
Major product is





CORRECT ANSWER: C

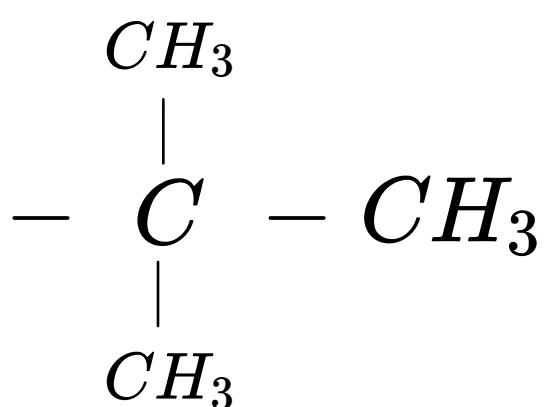
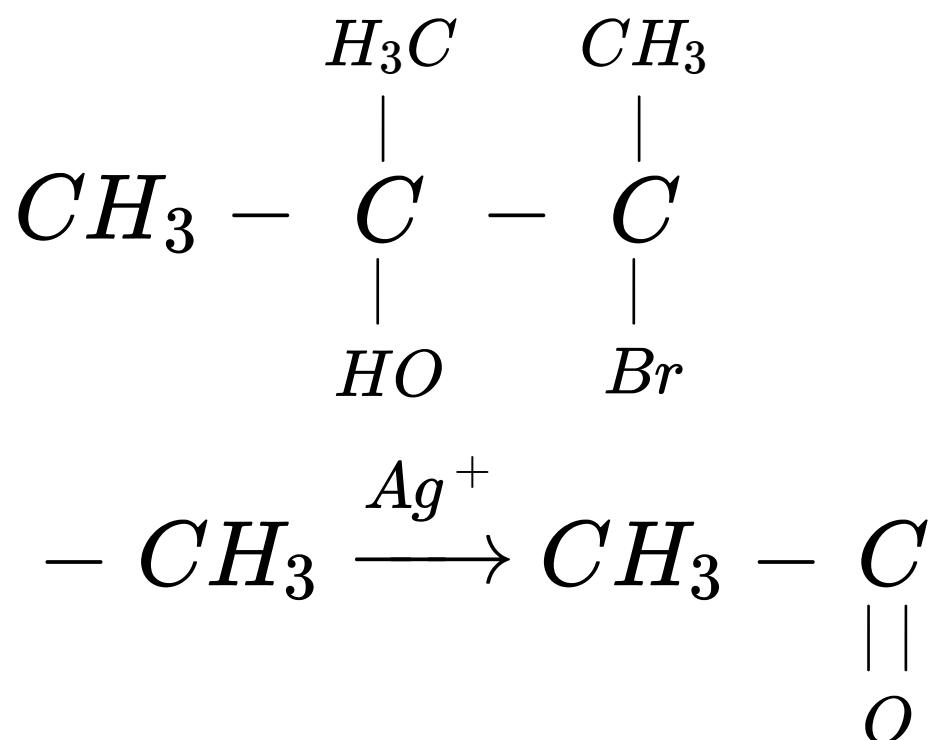
SOLUTION:



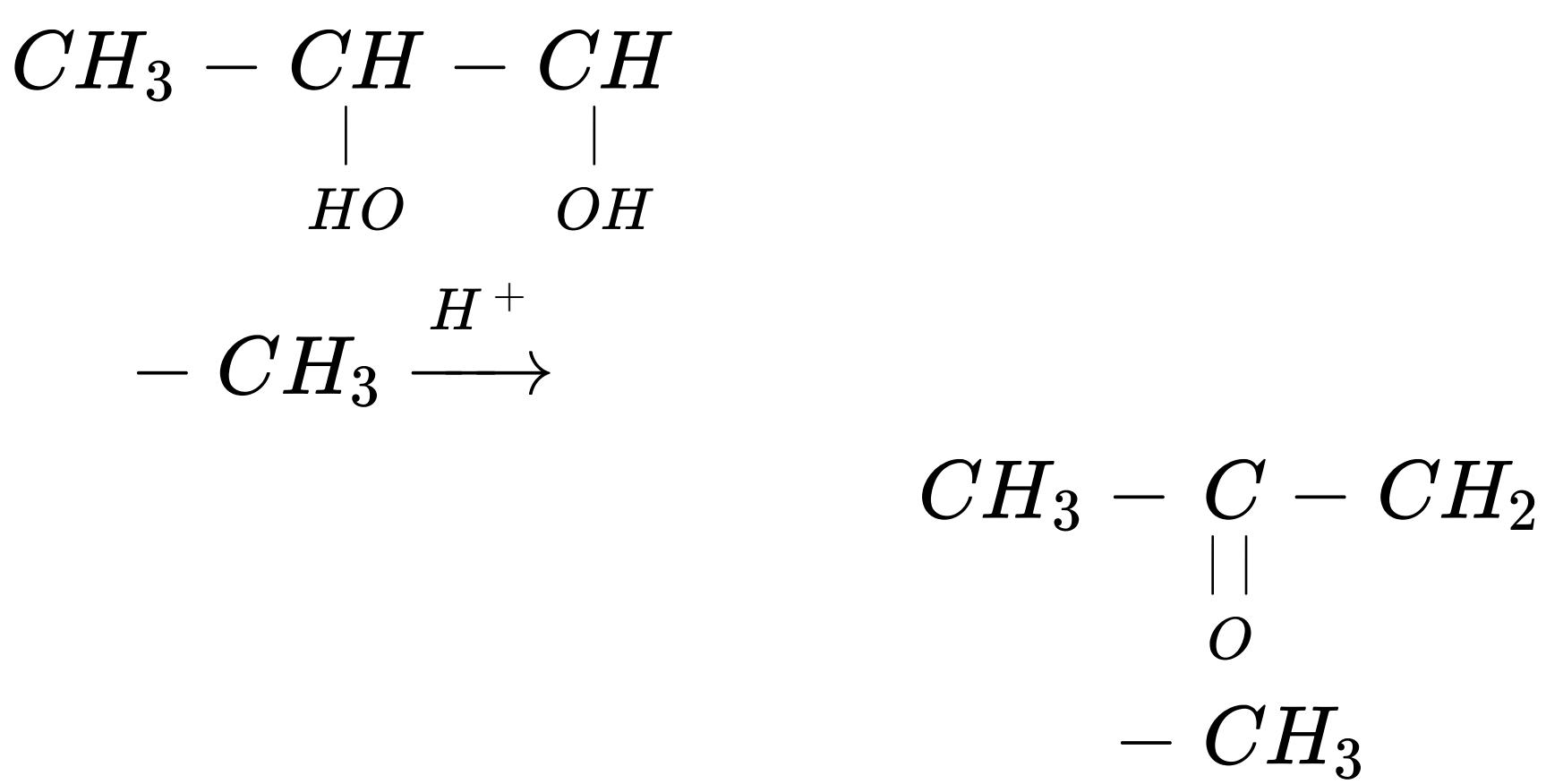
Q-11 - 12662379

Which of the following does not represent the correct product?

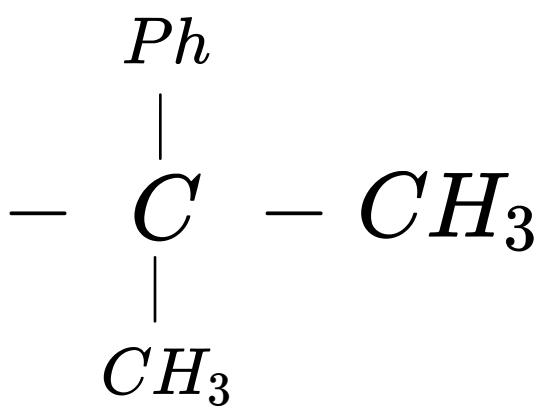
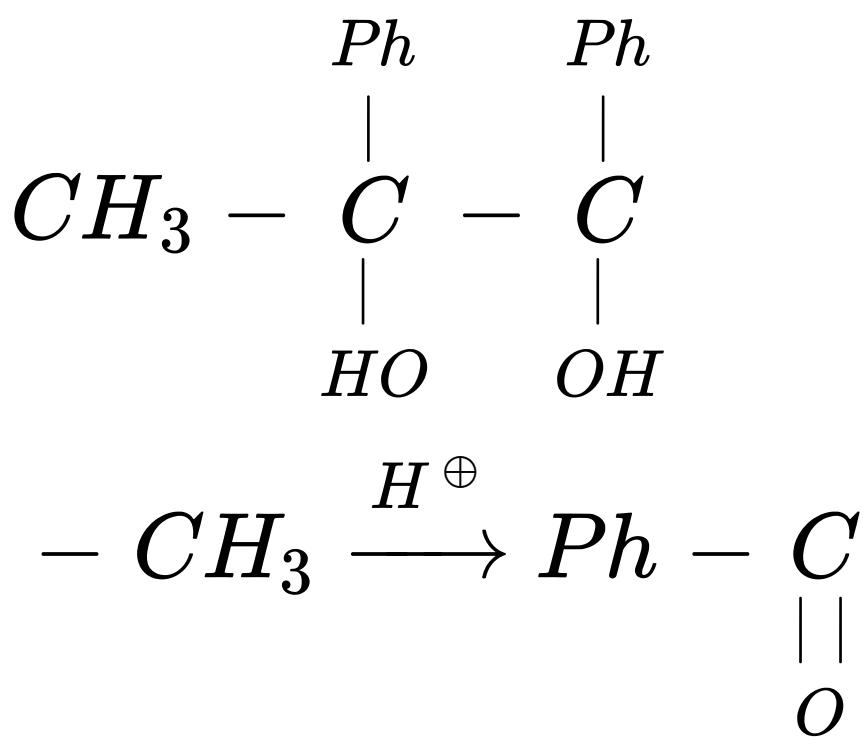
(A)



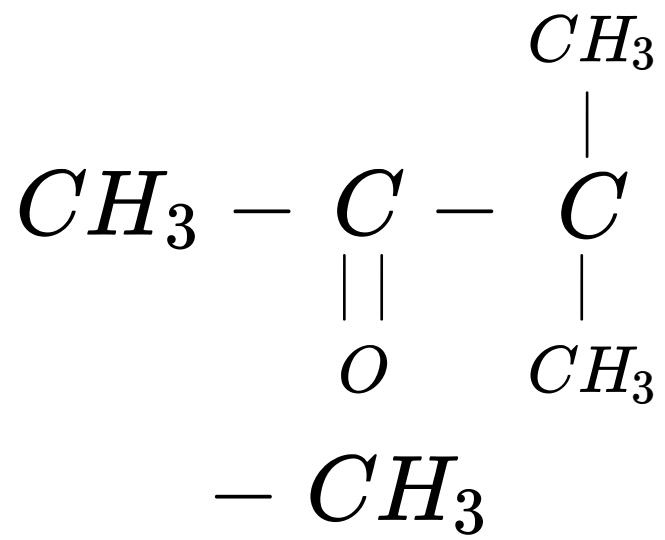
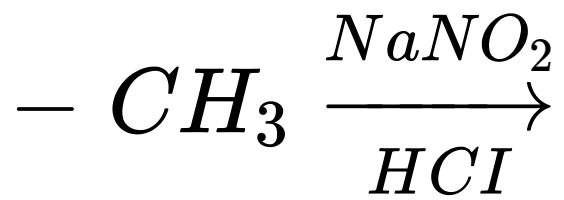
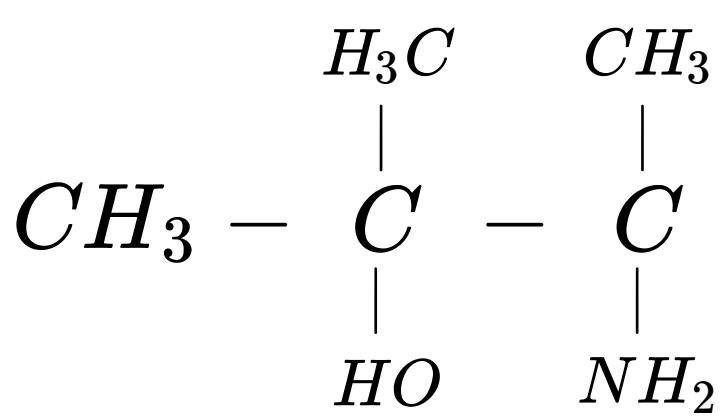
(B)



(C)



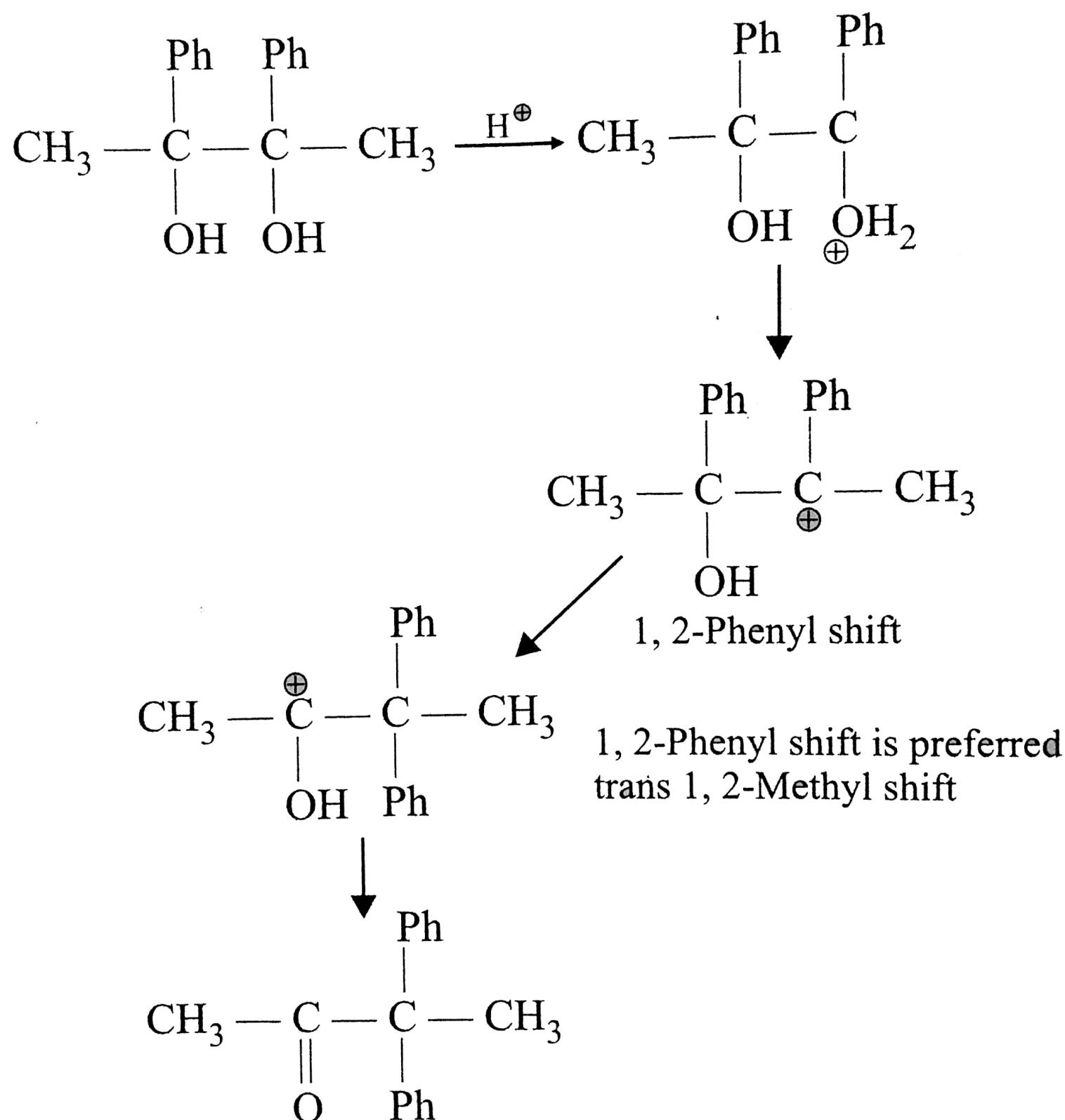
(D)



CORRECT ANSWER: C

SOLUTION:

Correct Product for is (c).



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Q-12 - 12662380

Methyl alcohol can be distinguished from Ethyl alcohol using

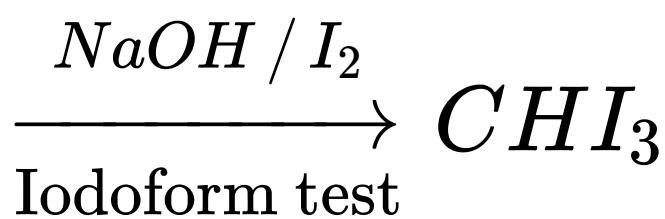
- (A) Sodium hydroxide and iodine
 - (B) Schiff's reagent

(C) Fechling soultion

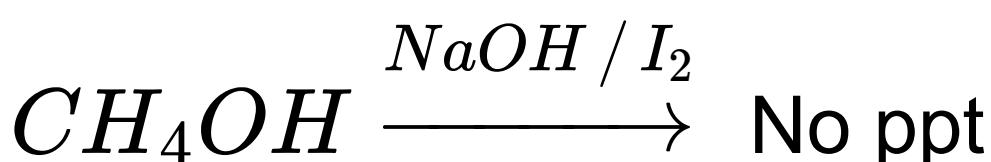
(D) Phthalein fusion test

CORRECT ANSWER: A

SOLUTION:



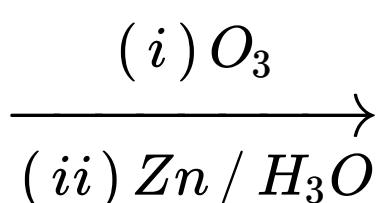
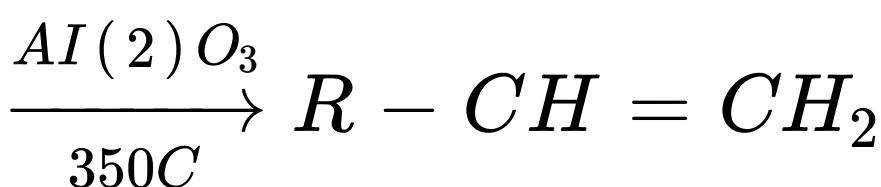
(yellow ppt)



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Q-13 - 12662381

The missing structures *A* and *B* in the recation sequence:

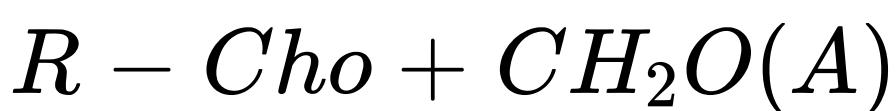
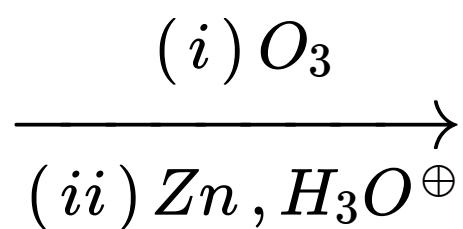
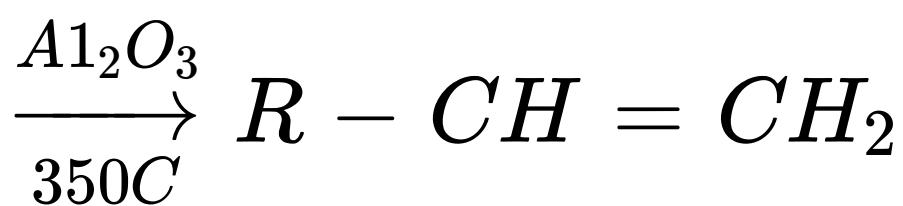


$RCHO + A, RCHO \xrightarrow{\text{Reduct}} B$, are

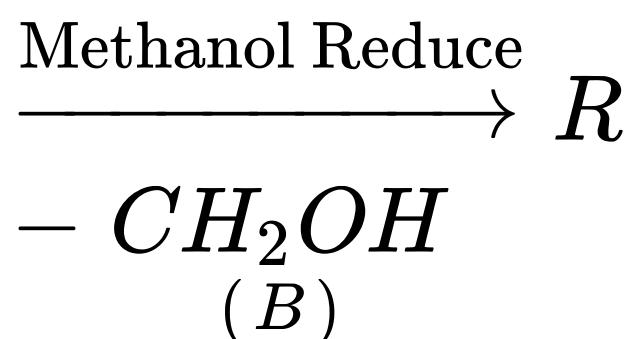
- (A) $CH_3OH, RCOOH$
 - (B) Methanal, RCH_2OH
 - (C) Ethanal, $RCOOH$
 - (D) Methanal, $RCHOHR$
-

CORRECT ANSWER: B

SOLUTION:

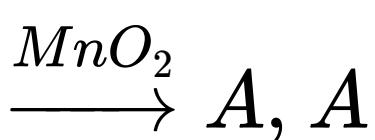
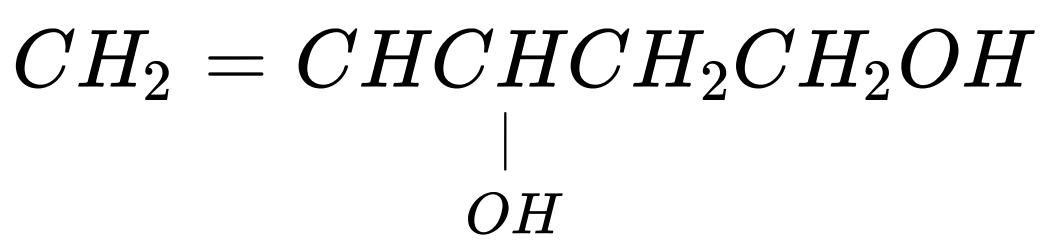


$R - CHO$

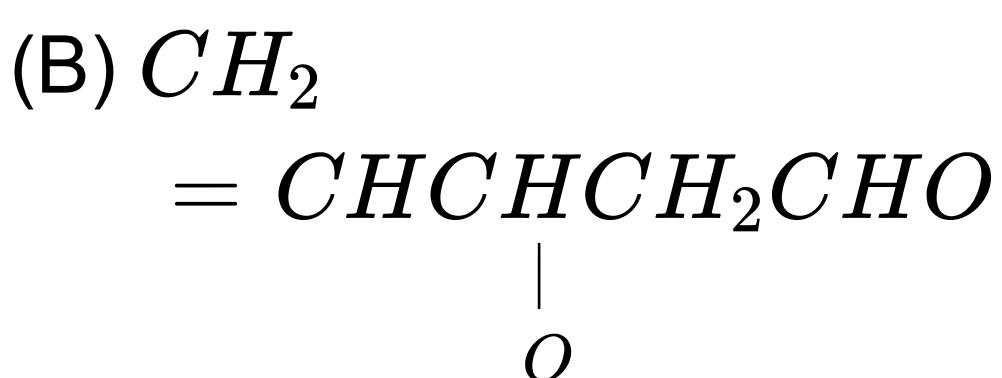
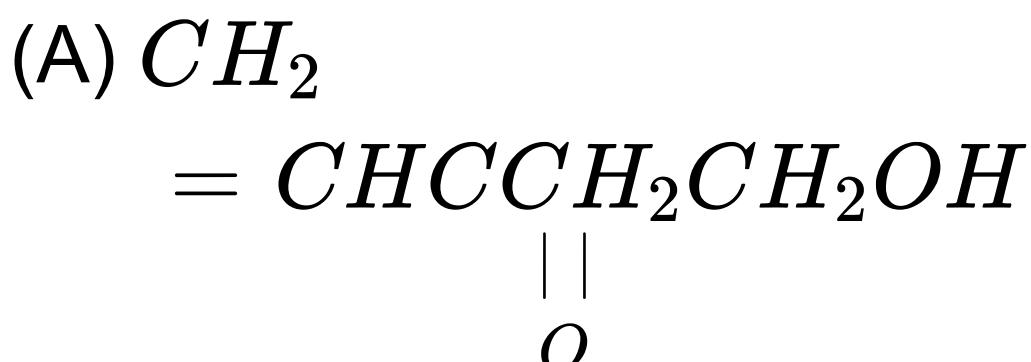


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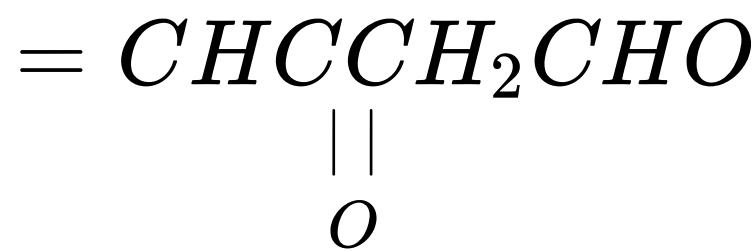
Q-14 - 12662382



is



(C) CH_2



(D)



CORRECT ANSWER: A

SOLUTION:

MnO_2 is used to oxidize allylic alcohols



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Q-15 - 12662387

The compound '^A' when treated with ceric ammonium nitrate solution gives yellow ppt. the compound 'A' is

(A) Alkane

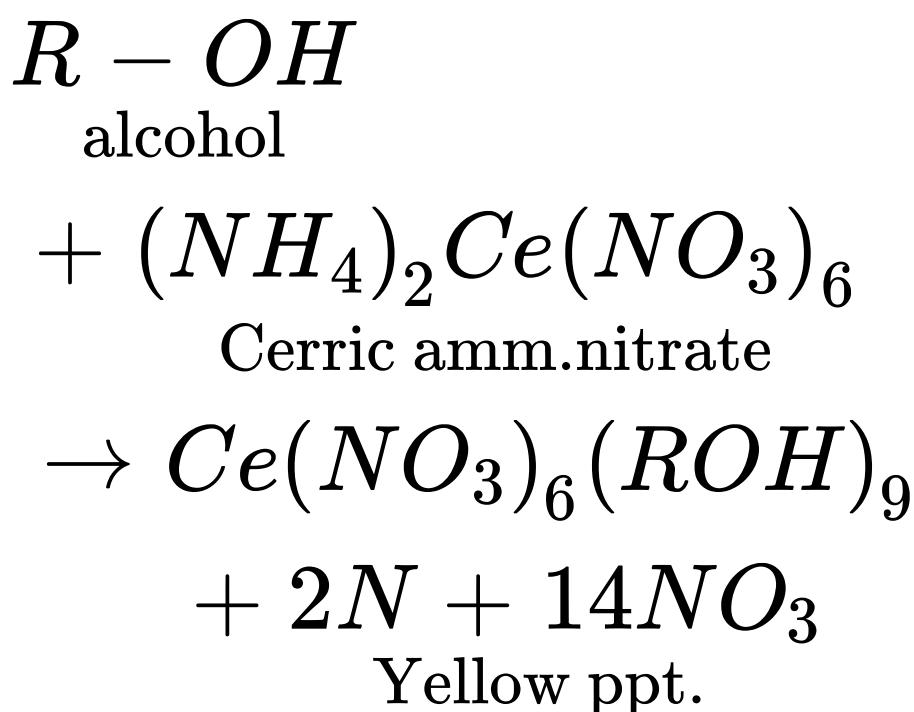
(B) Aldehyde

(C) Acid

(D) Alcohol

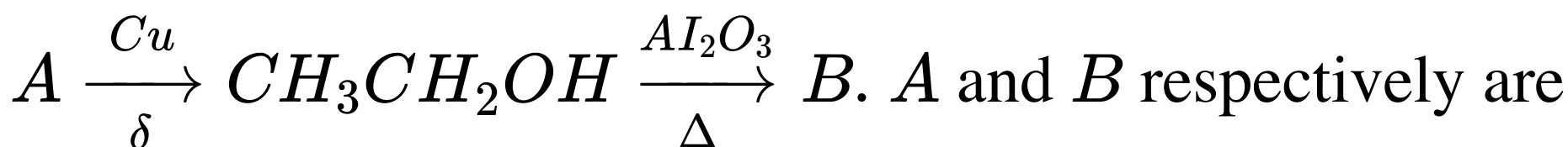
CORRECT ANSWER: D

SOLUTION:



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Q-16 - 12662398



(A) `Alkanal, alkene

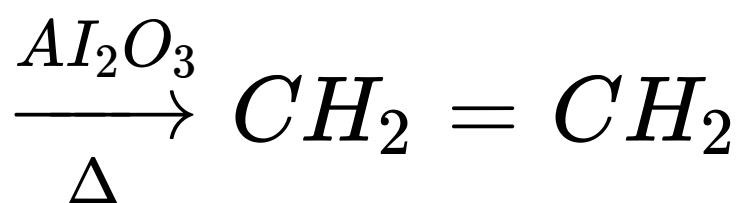
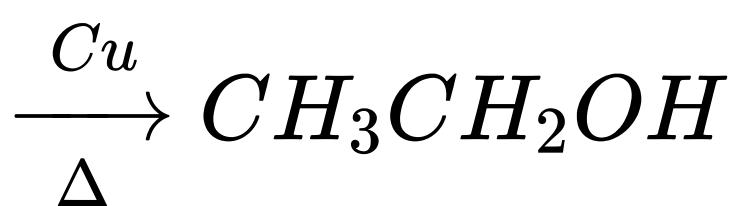
(B) Alkyne, alkanal

(C) Alkene, alkanal

(D) Alkene, alkyne

CORRECT ANSWER: A

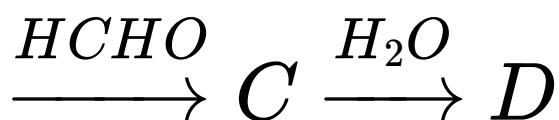
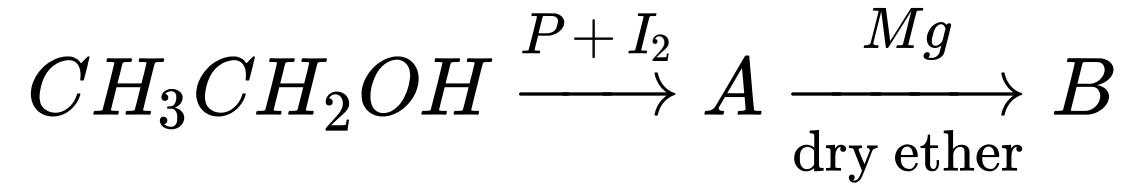
SOLUTION:



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Q-17 - 12662404

In the following sequence of reactions:



the compound D is:

(A) Butanal

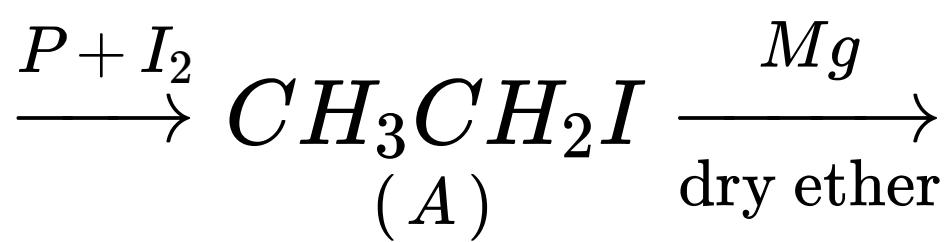
(B) n -butyl alcohol

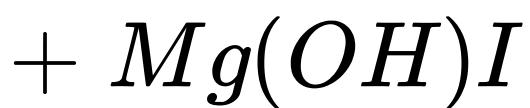
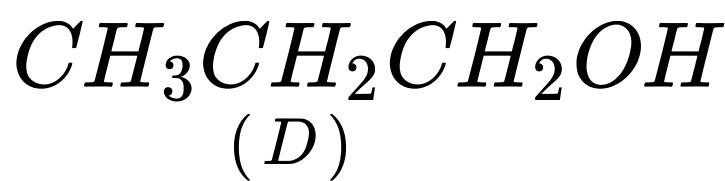
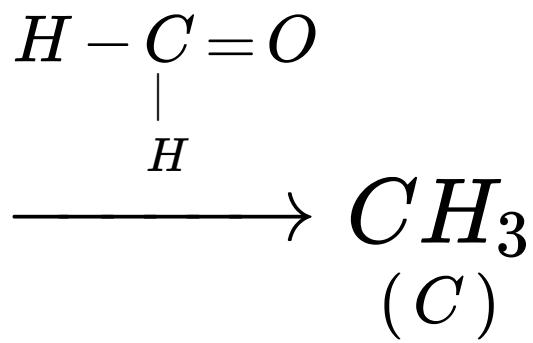
(C) n -propyl alcohol

(D) Propanal

CORRECT ANSWER: C

SOLUTION:



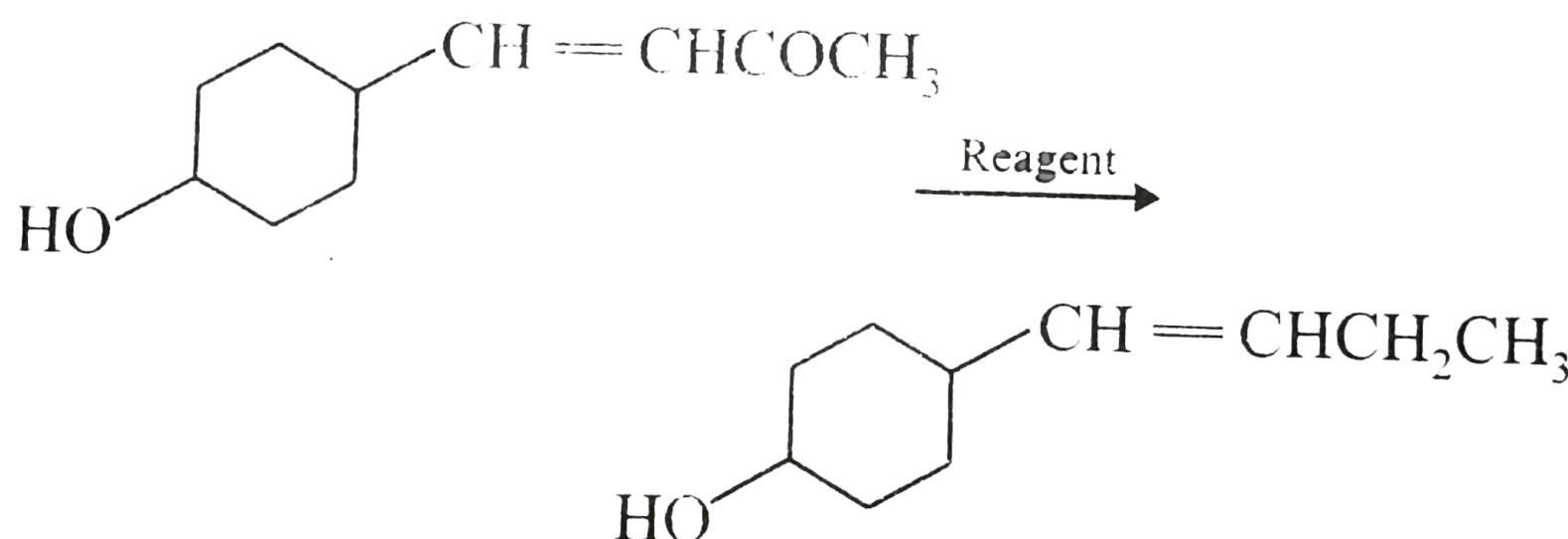


The compound *D* is n-propyl alcohol.

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Q-18 - 12662408

In the given transformation which of the following is the most appropriate reagent?



(A) $NH_2NH_2, \overset{\Theta}{OH}$

(B) $Zn - Hg / HCl$

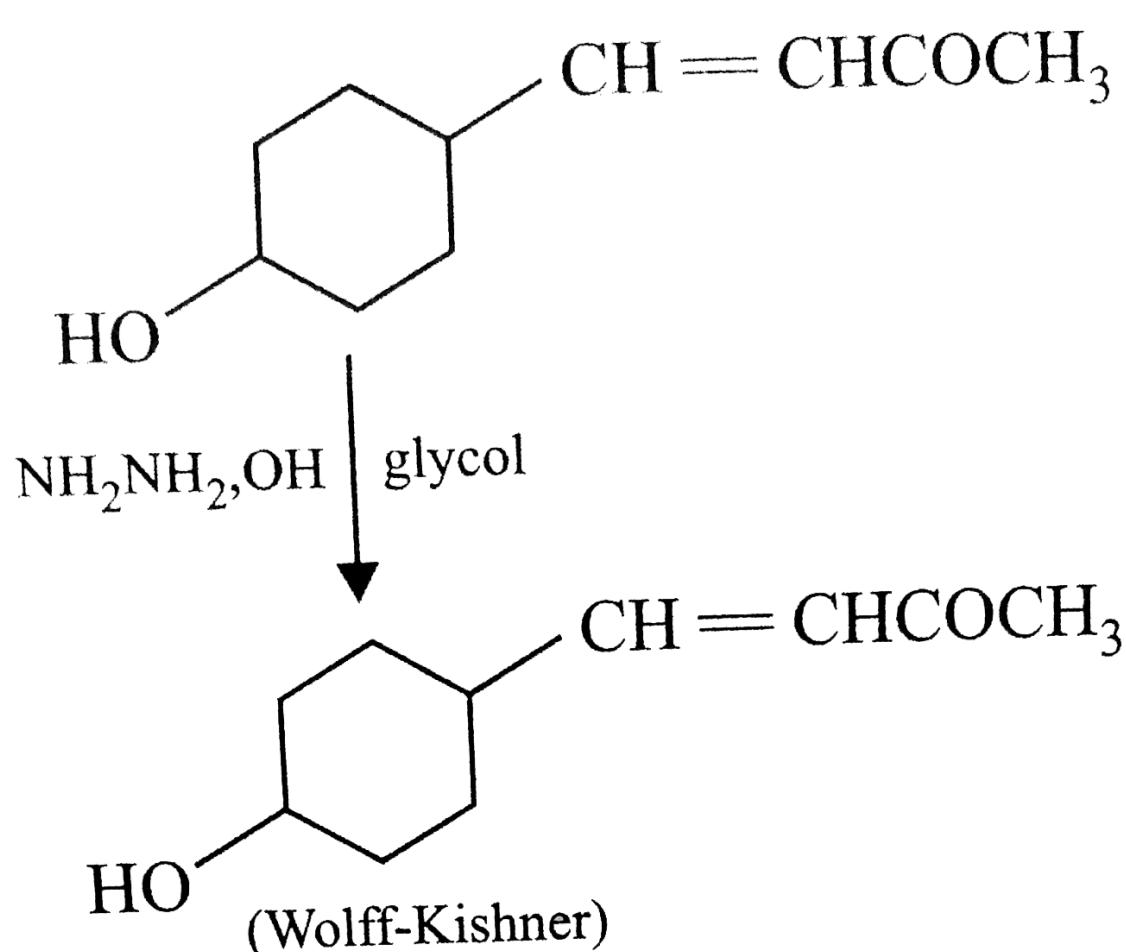
(C) $Na, Liq. NH_3$

(D) $NaBH_4$

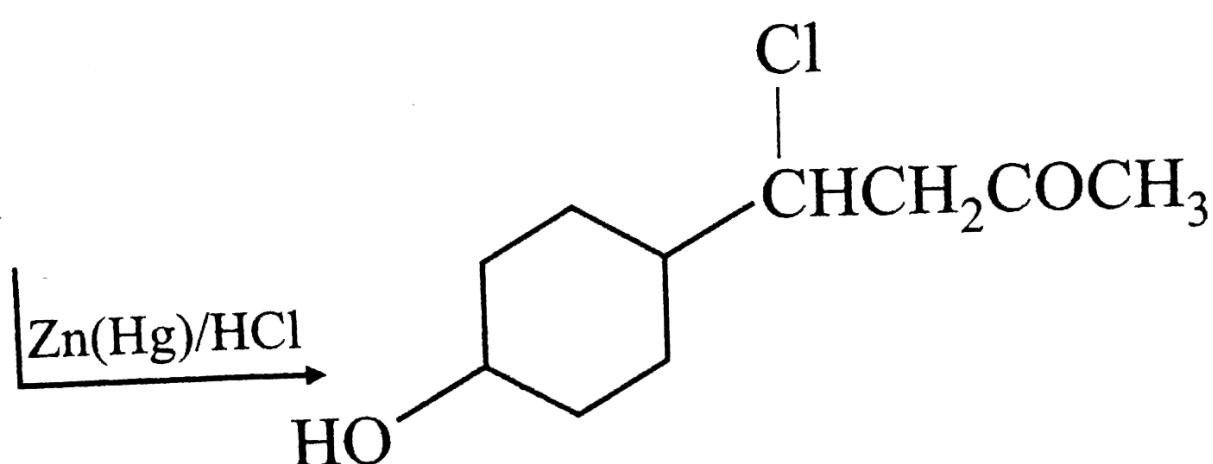
CORRECT ANSWER: A

SOLUTION:

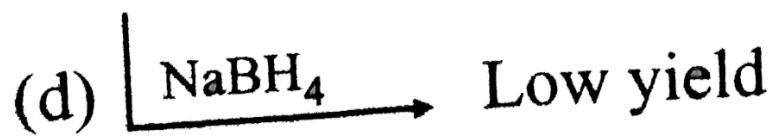
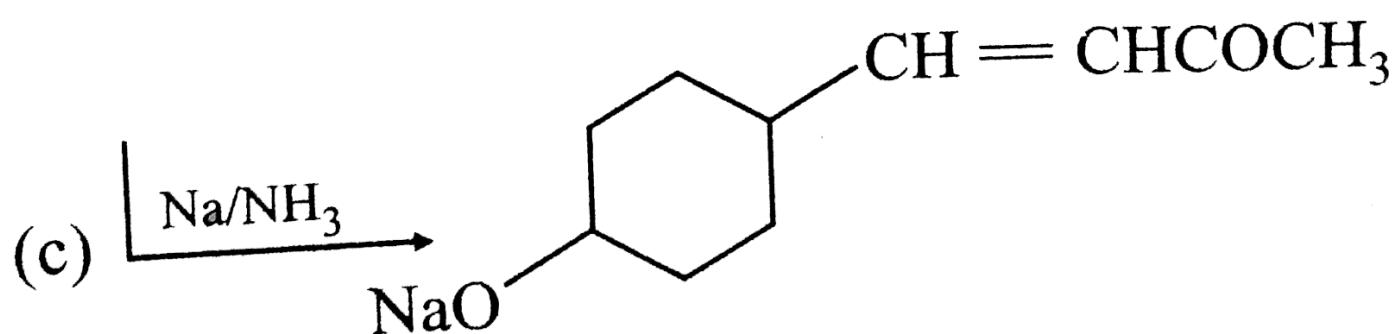
(a) (a)



(b)



HCl attacks 2° alcohol as well as ($\text{C} = \text{C}$) bond.



(a)



(b)



(c)



(d)

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Q-19 - 12662420

The best method to prepare cyclohexene from cyclohexanol is by using

(A) Conc. HCl + $ZnCl_2$

(B) Conc. H_3PO_4

(C) HBr

(D) Conc. HCl

CORRECT ANSWER: B

SOLUTION:

Conc. HCl , HBr and conc. $HCl + ZnCl_2$ all are

nucleophiles thus convert alcohols to alkyl halides.

However, conc. H_3PO_4 is a good dehydrating agent

which converts an alcohol to an alkene.

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Q-20 - 12662433

Salicylic acid can be prepared using Reimer-Tiemann's reaction by treating phenol with

(A) Methyl chlorode in the presence of anhydrous aluminium chloride

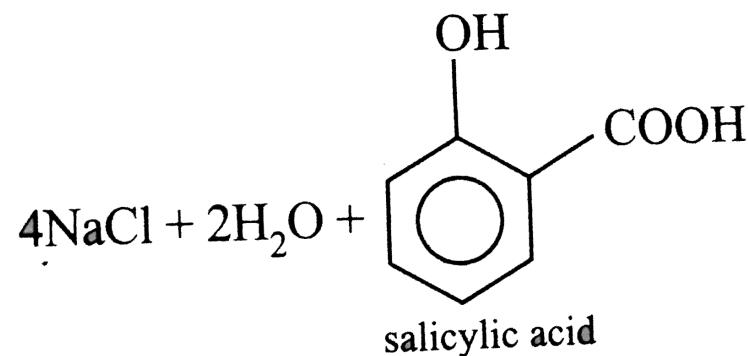
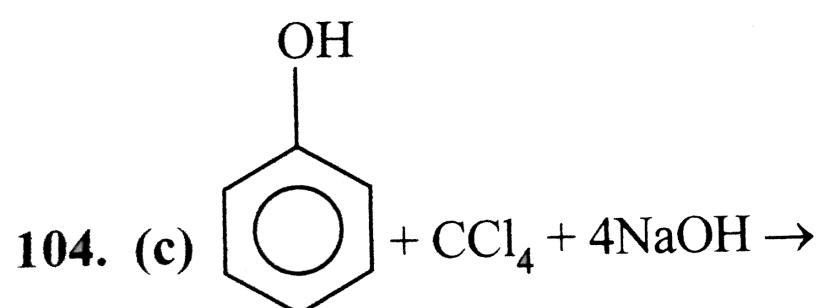
(B) Carbon dioxide under pressure in sodium hydroxide solution

(C) Carbon tetrachloride and concentrated sodium hydroxide

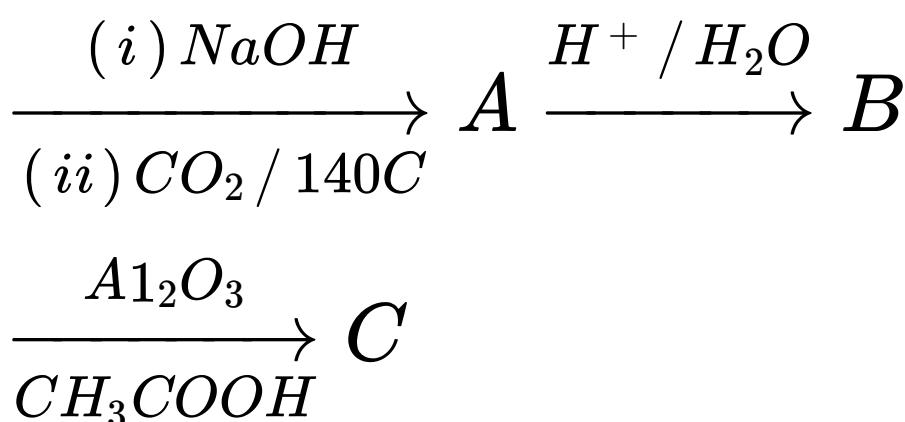
(D) Sodium nitrite and a few drops of concentrated sulphuric acid

CORRECT ANSWER: C

SOLUTION:



Phenol



In this reaction, the end product *C* is

(A) salicylaldehyde

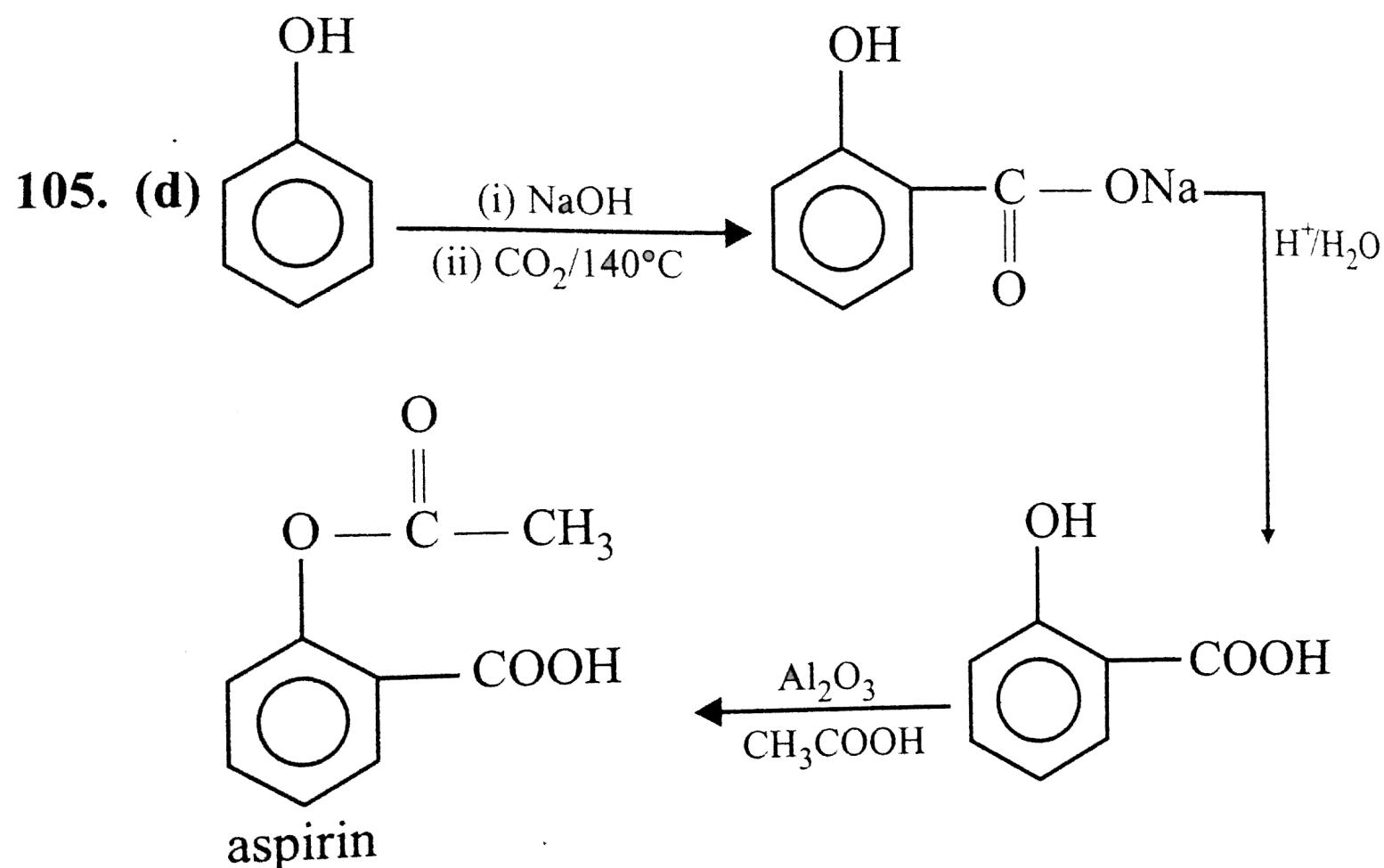
(B) salicylic acid

(C) phenyl acetate

(D) aspirin

CORRECT ANSWER: D

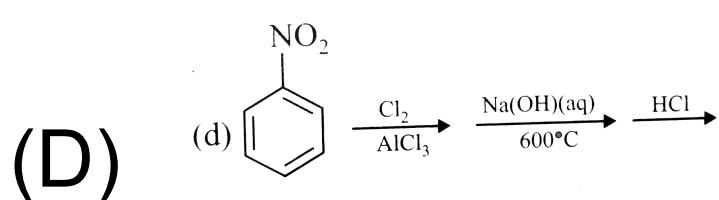
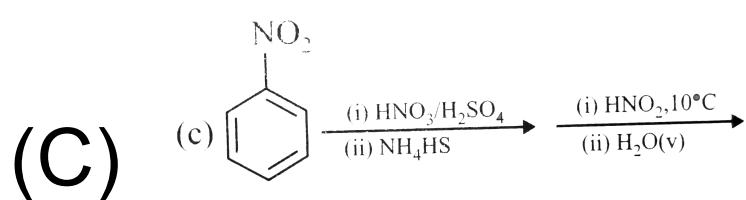
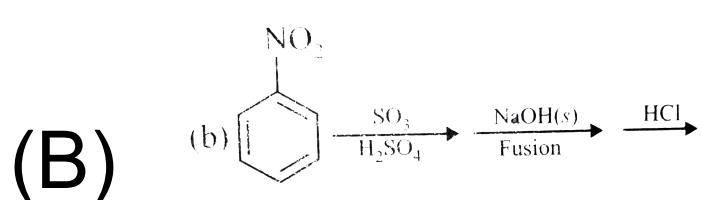
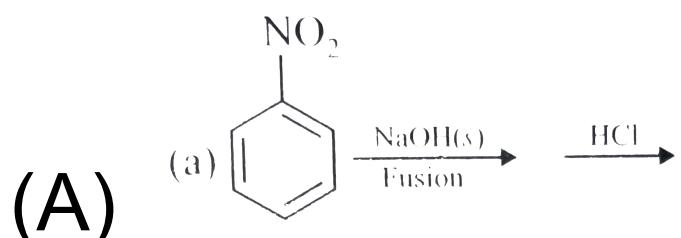
SOLUTION:



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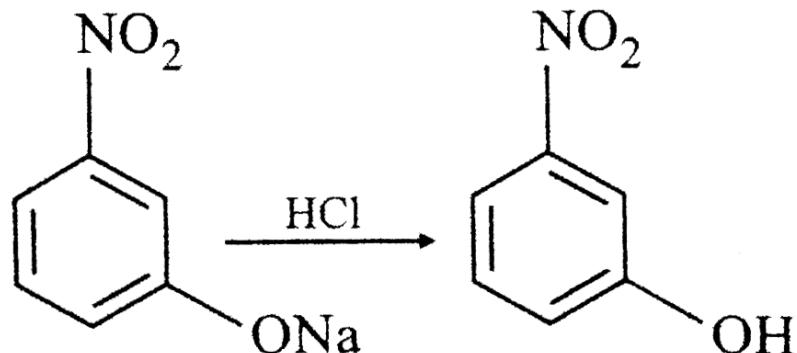
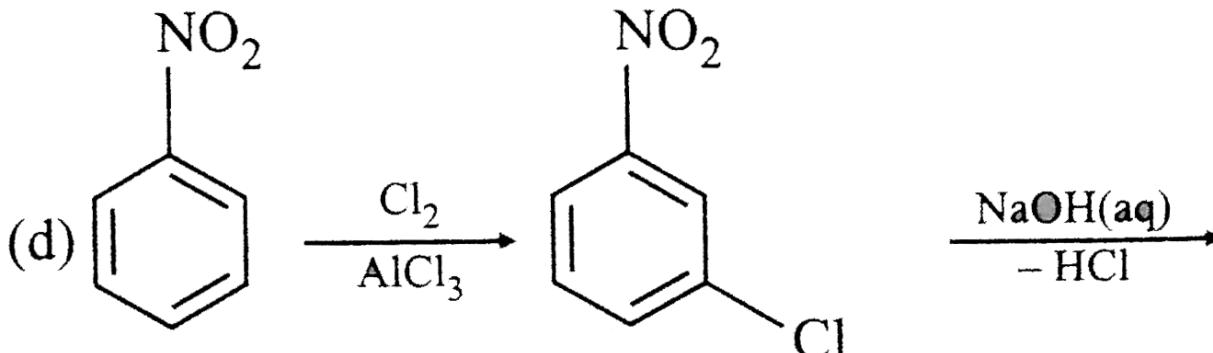
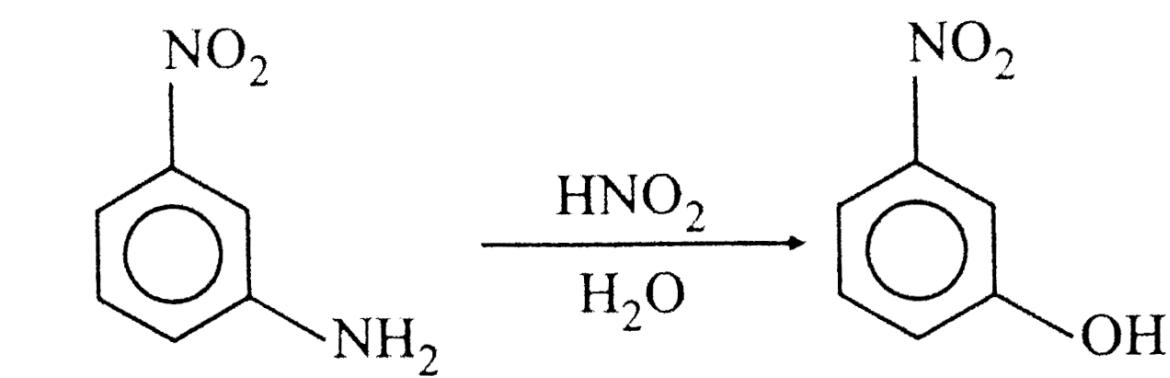
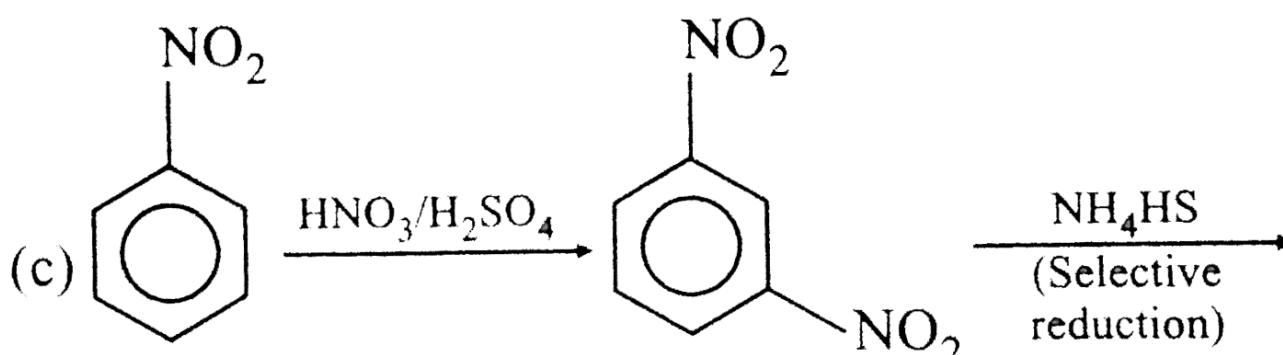
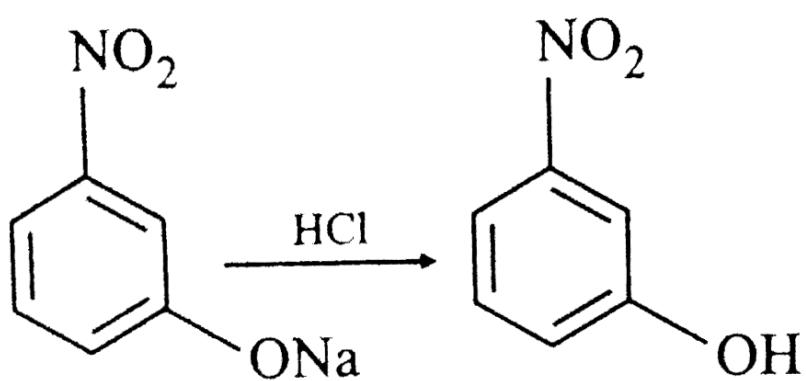
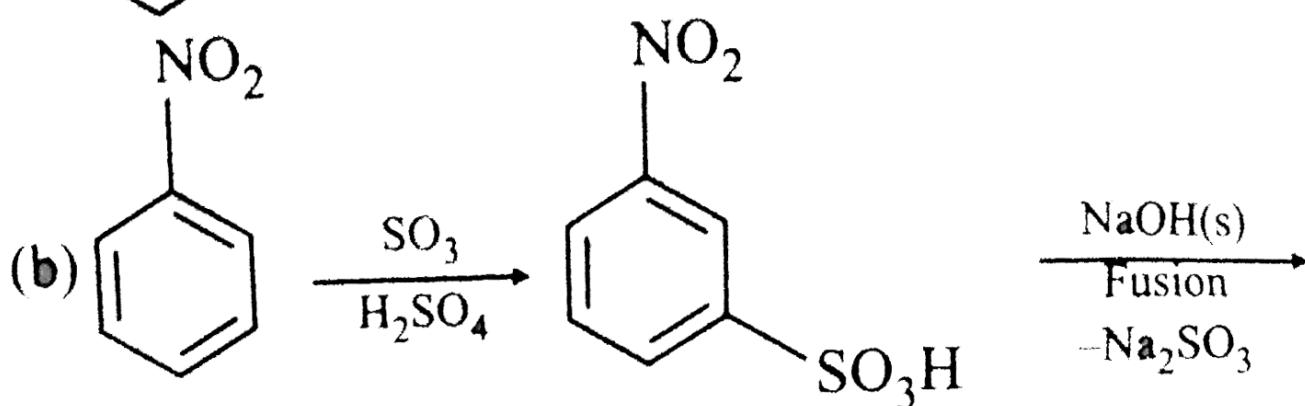
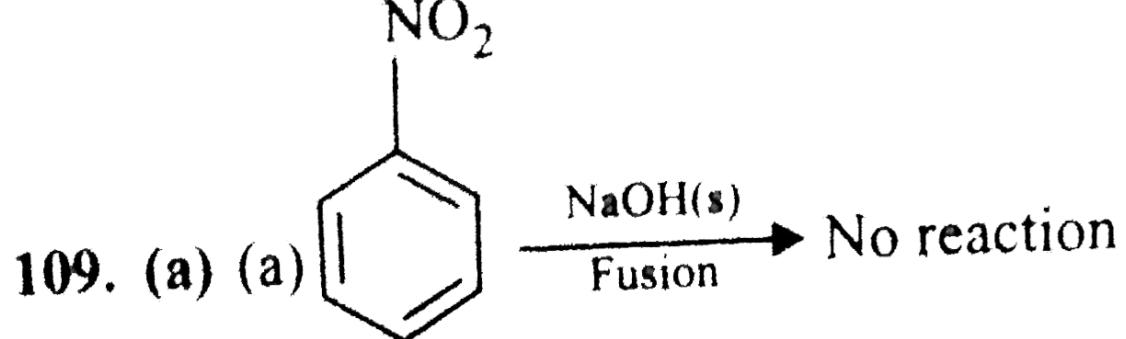
Q-22 - 12662438

All of the following may give meta nitrophenol except



CORRECT ANSWER: A

SOLUTION:



(a)



(b)



(c)

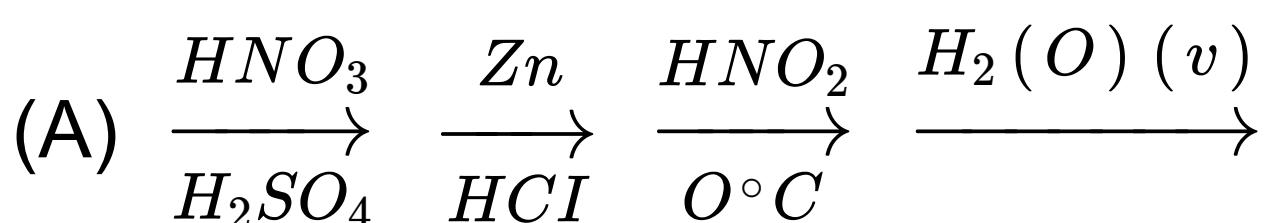


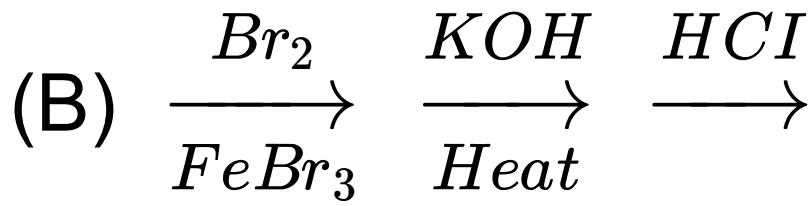
(d)

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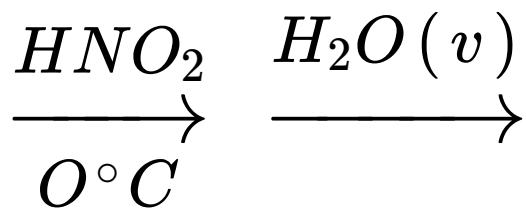
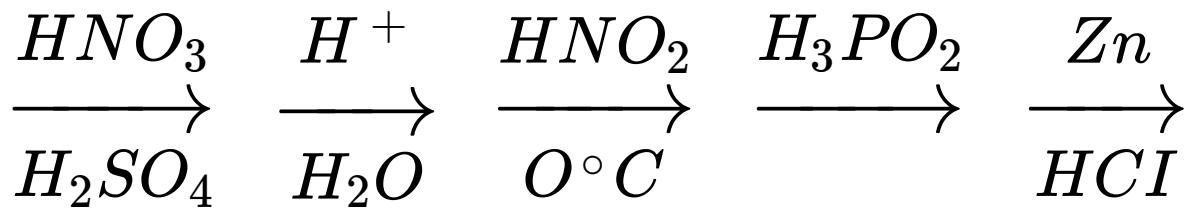
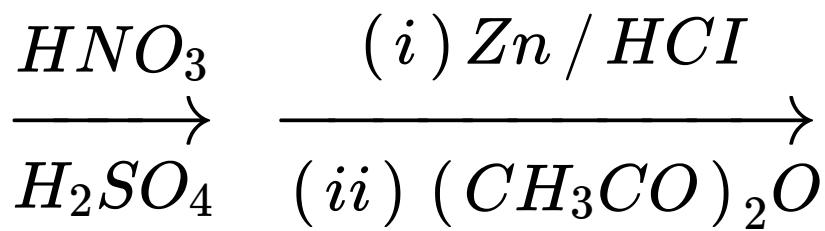
Q-23 - 12662439

Which of the following is the best preparation of meta cresol,
starting from toluene?

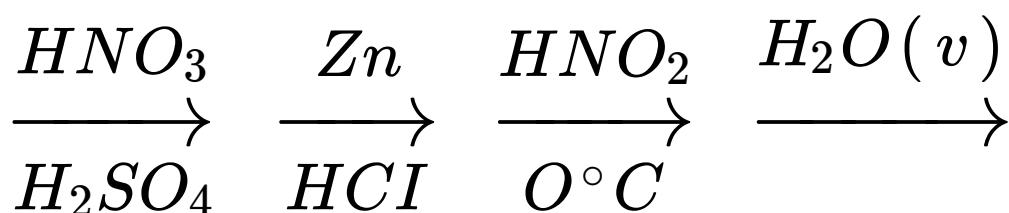
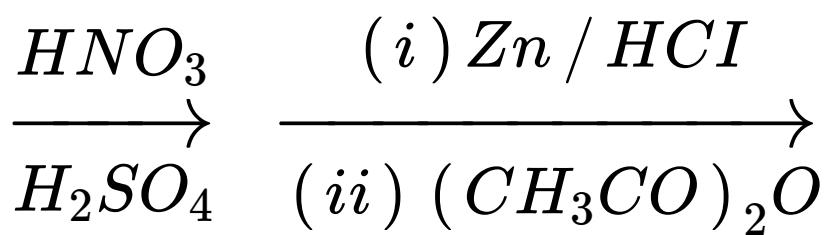




(C)



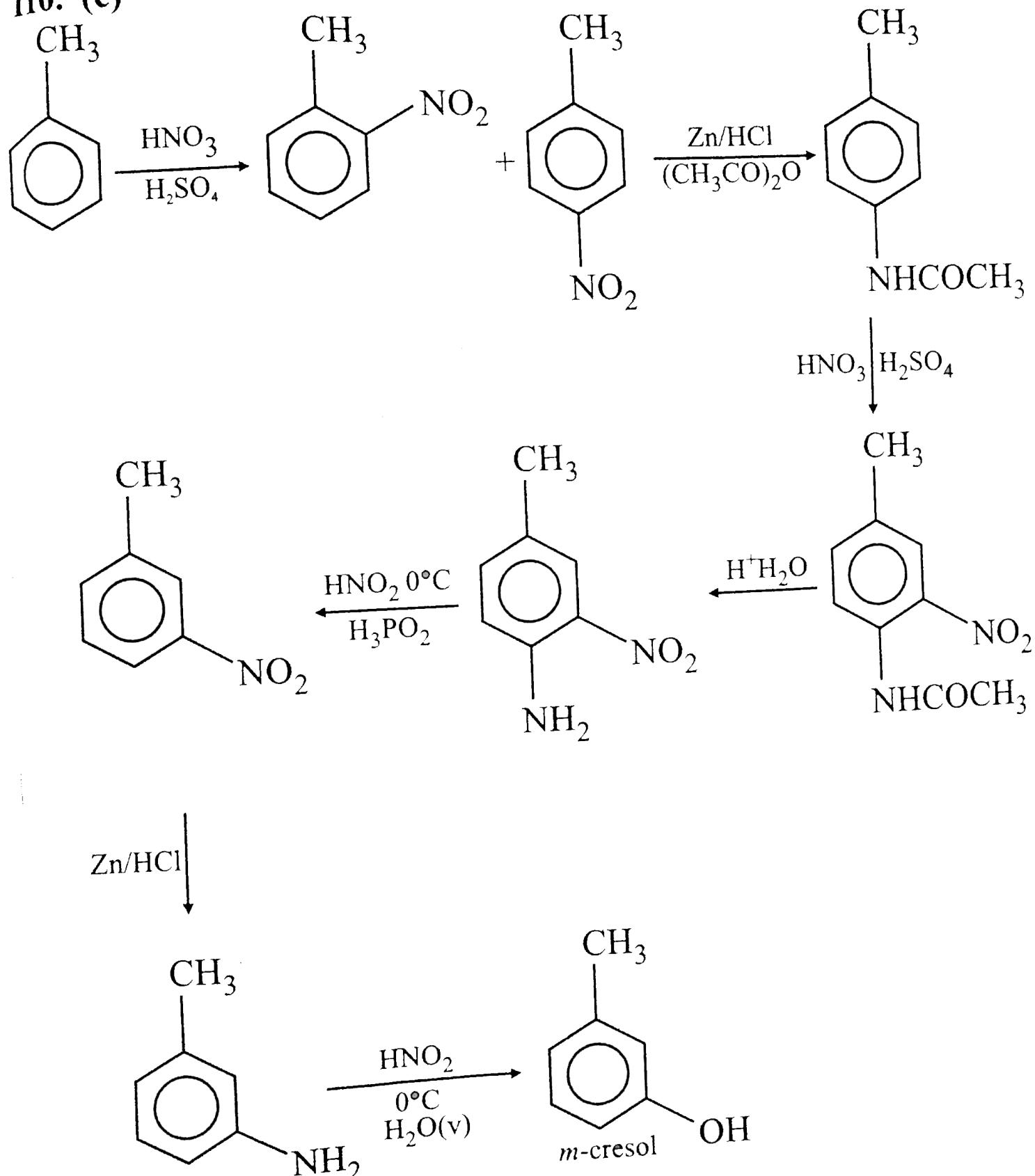
(D)



CORRECT ANSWER: C

SOLUTION:

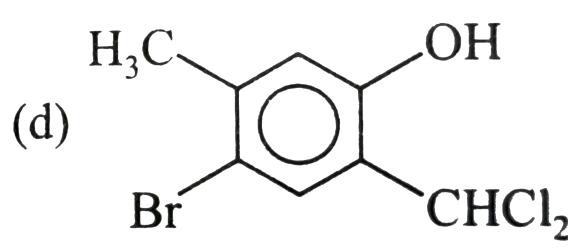
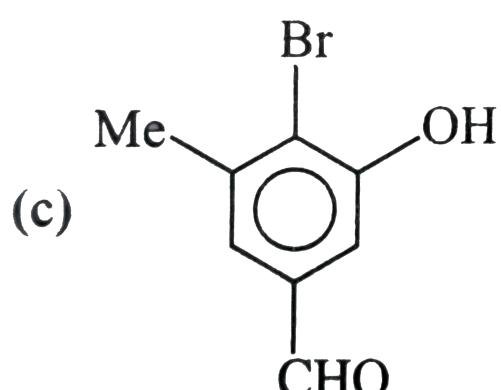
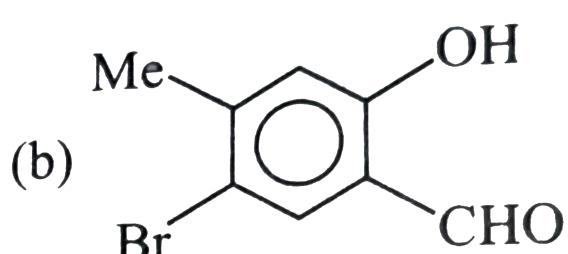
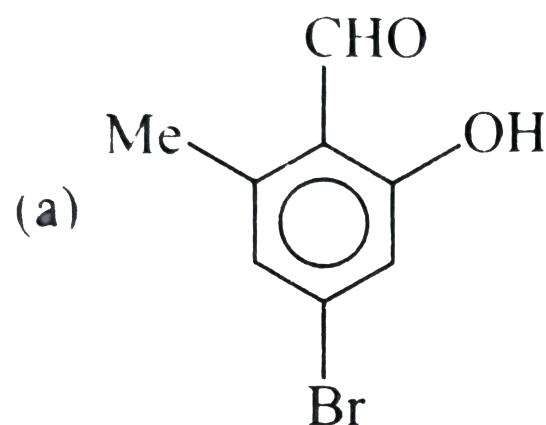
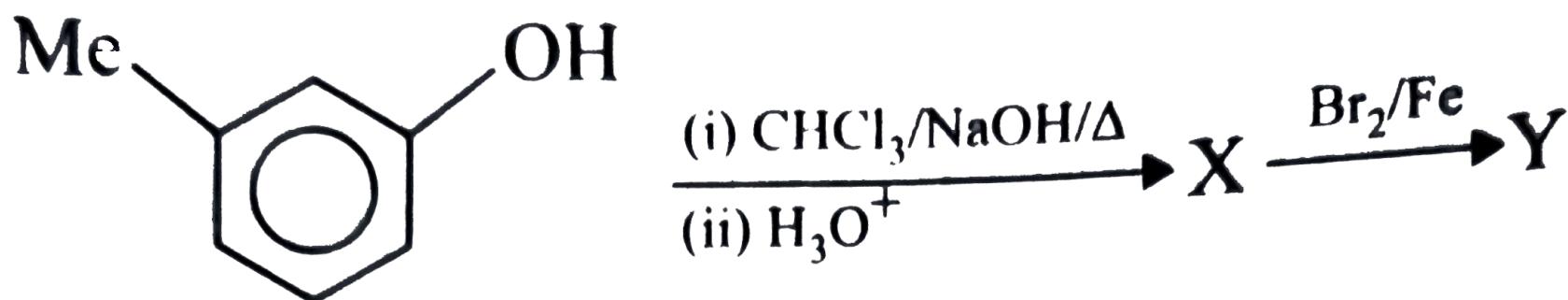
110. (c)



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Q-24 - 12662441

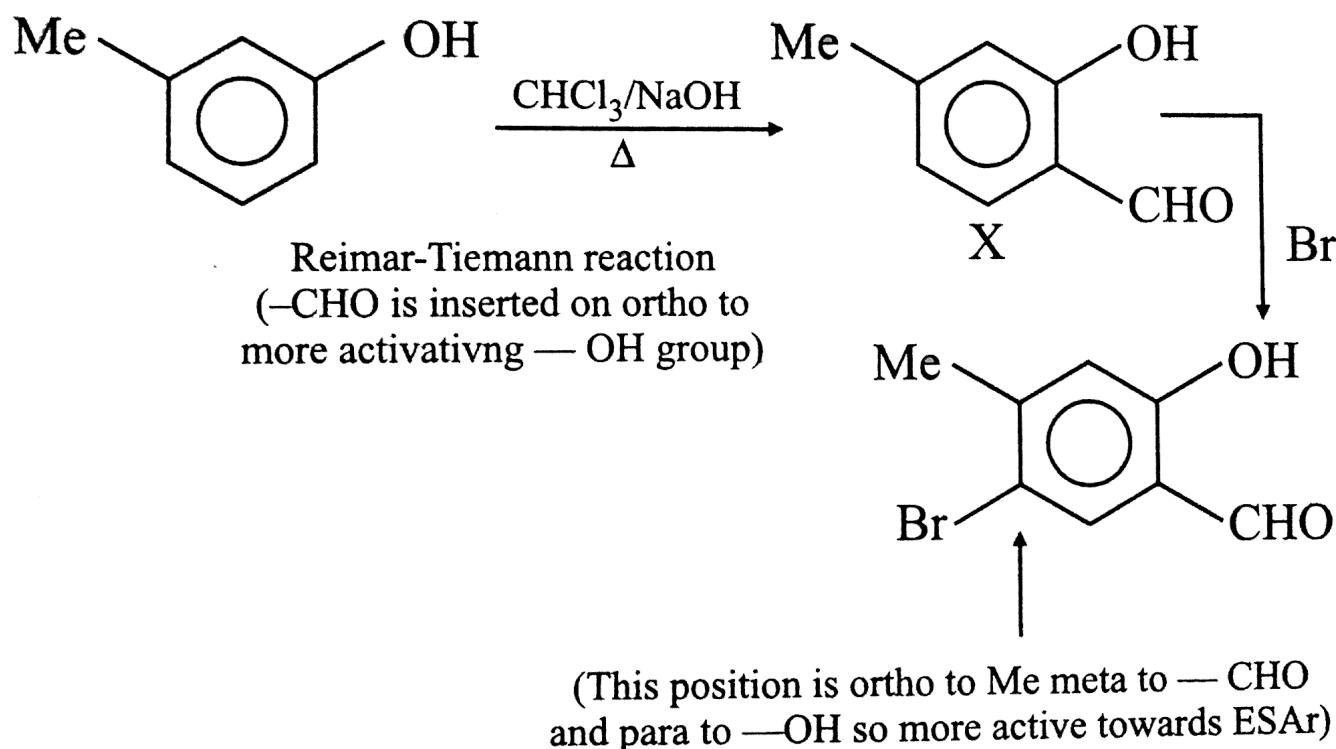
The product (*Y*) of the following sequence of the reactions would be



CORRECT ANSWER: B

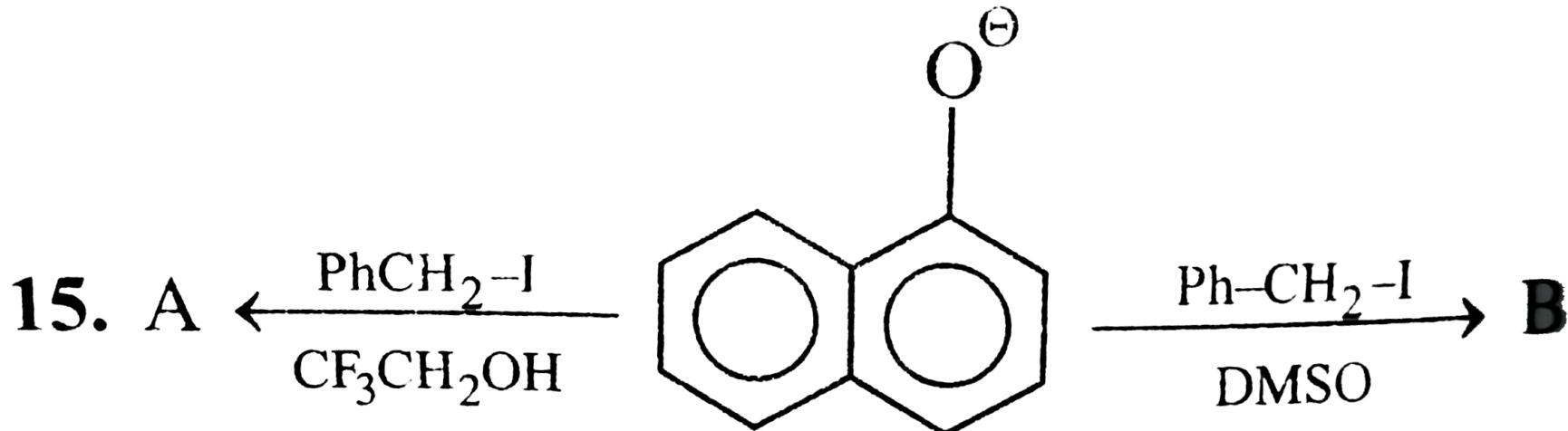
SOLUTION:

112. (b)

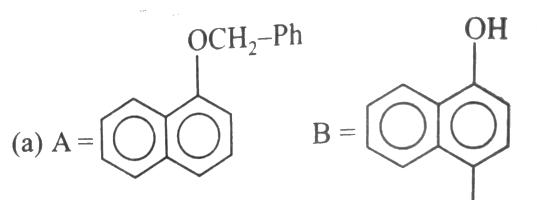


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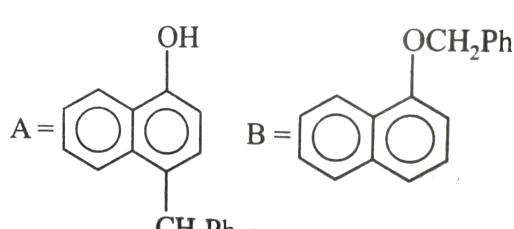
Q-25 - 12662445



'A' and 'B' respectively are

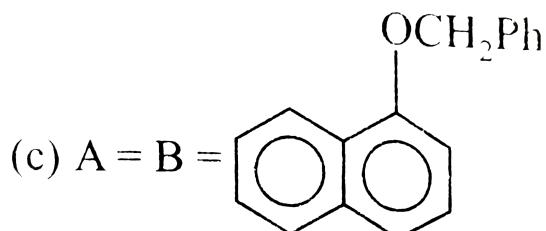


(A)

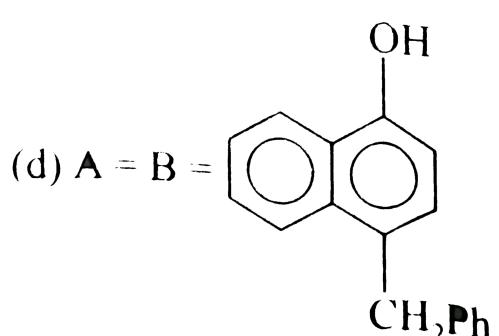


(B)

(C)



(D)



CORRECT ANSWER: B

SOLUTION:

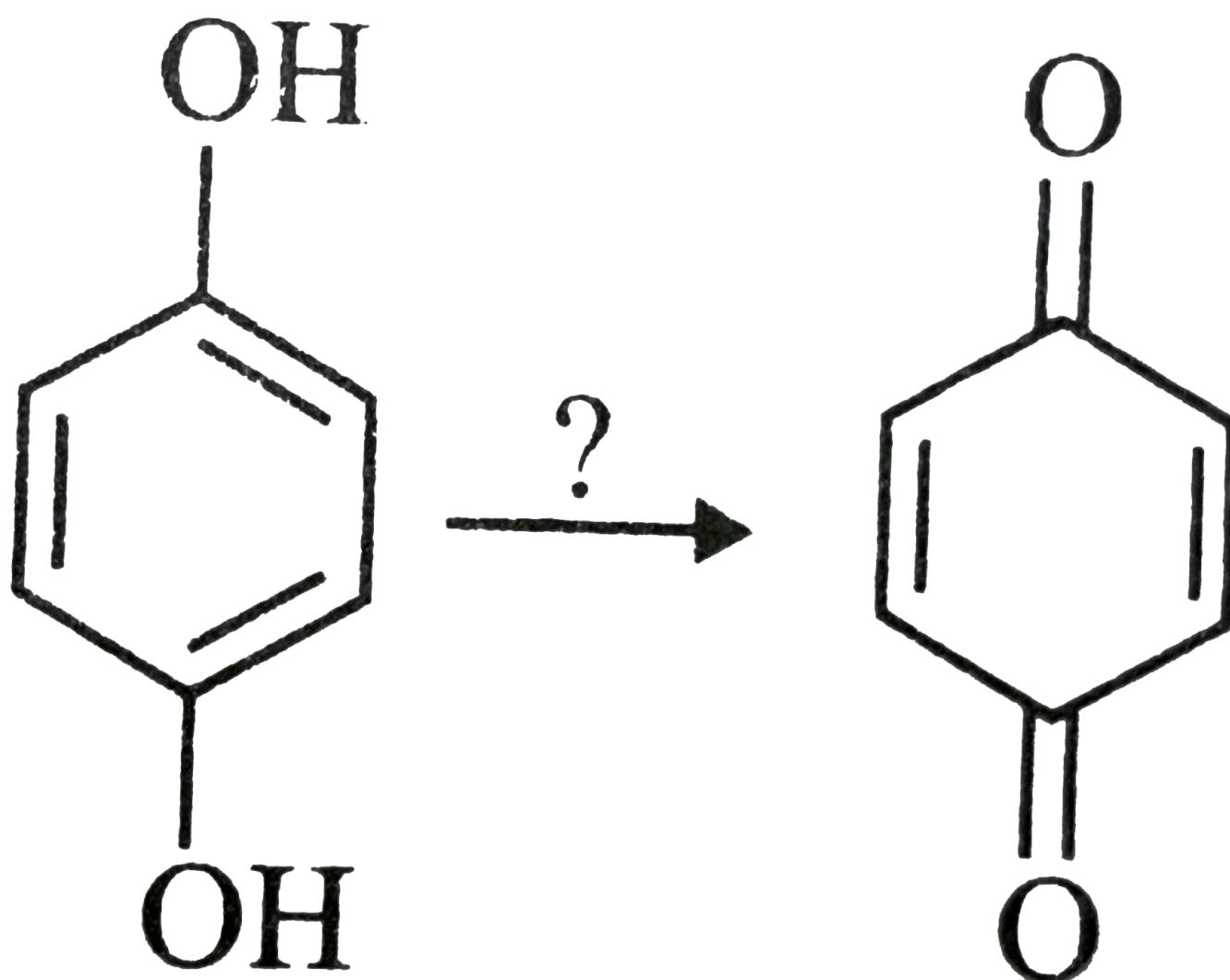
In $DMSOS_N^2$ mechanism occurs in CF_3CH_2OH , it

accepts proton $Ph - \overset{\oplus}{CH}_2$ and attack at *p*-position

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Q-26 - 12662443

Identify the reagent (*s*) needed to carry out the following reaction.



(A) $NaOH$

(B) $LiAlH_4$

(C)

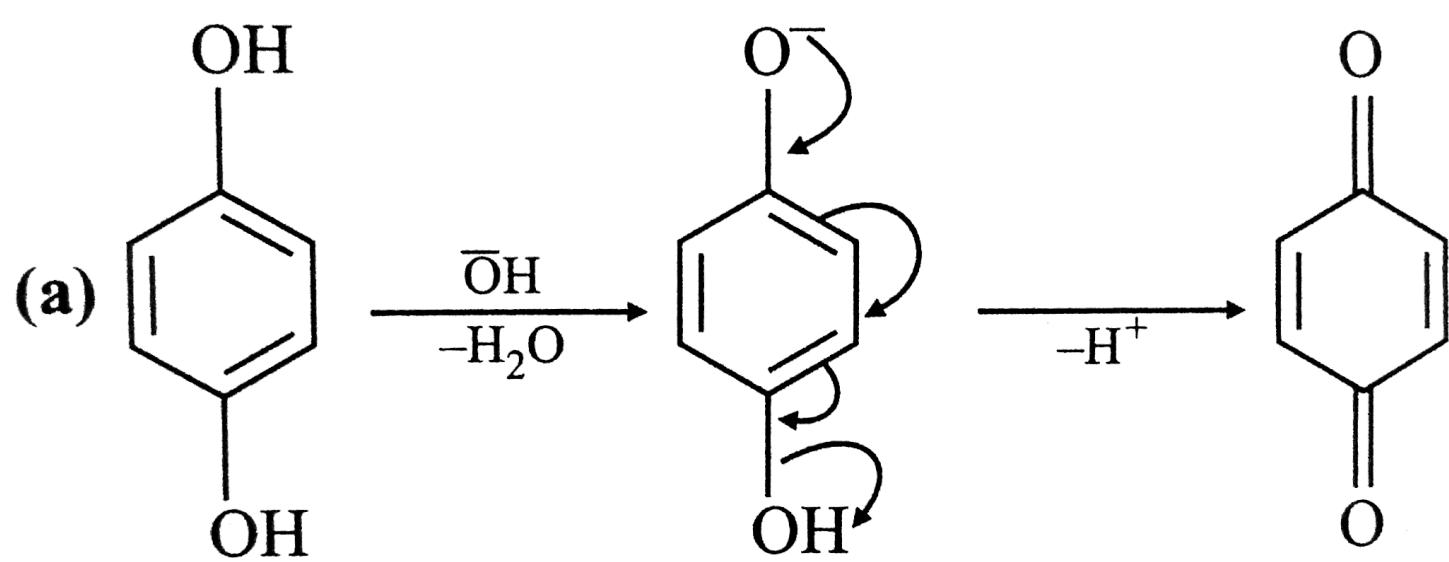
$Na_2Cr_2O_7, H_2SO_4$

$/ H_2O$

(D) Na

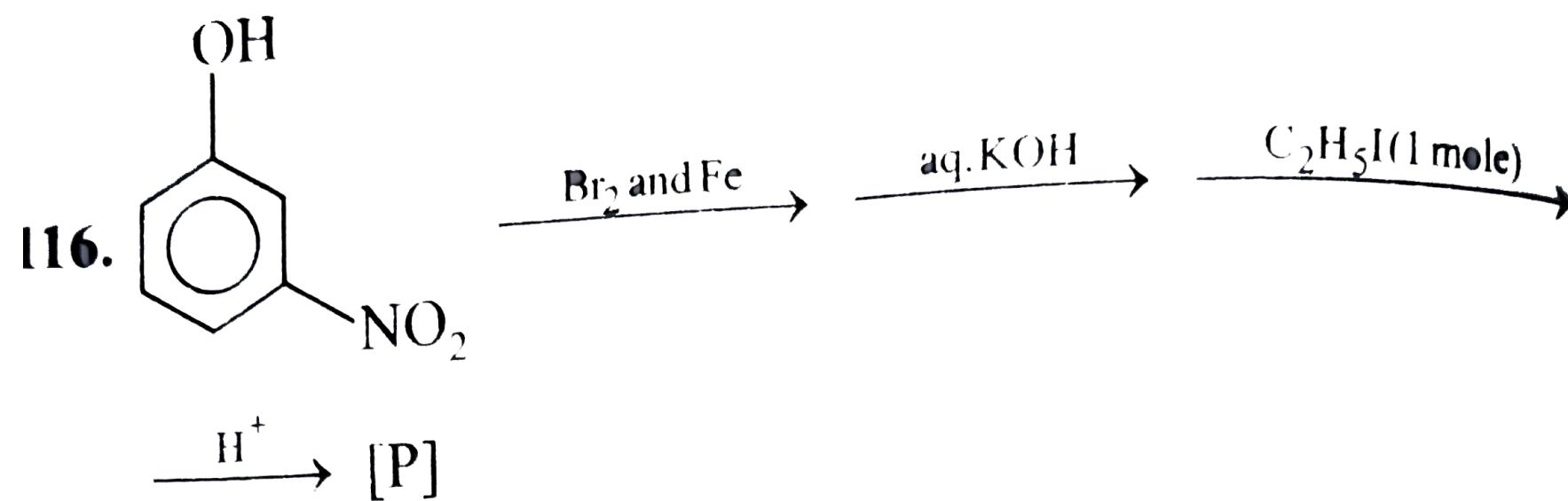
CORRECT ANSWER: A

SOLUTION:

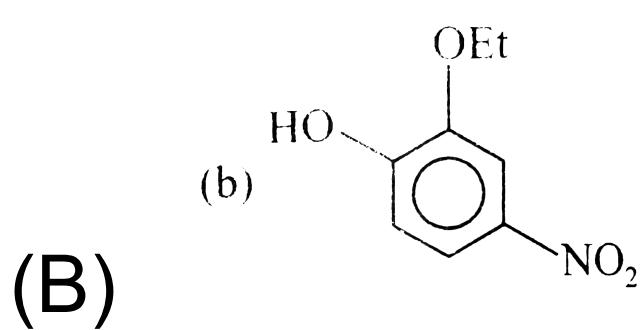
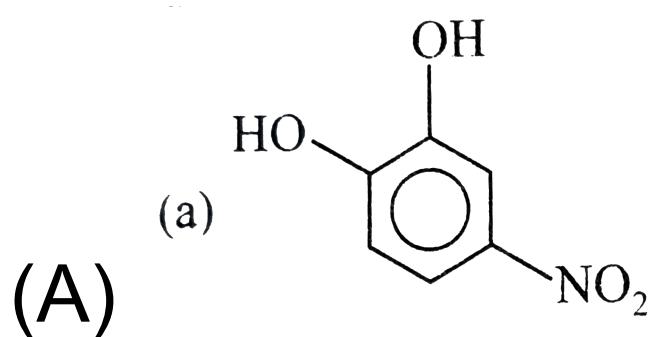


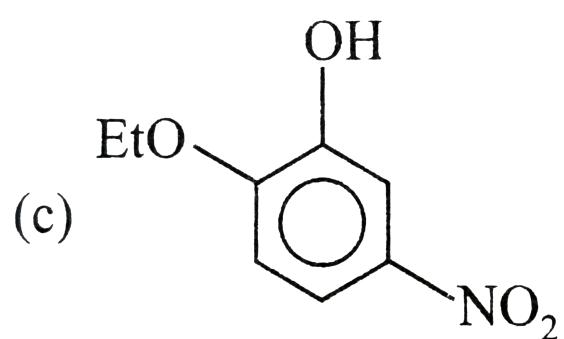
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Q-27 - 12662446

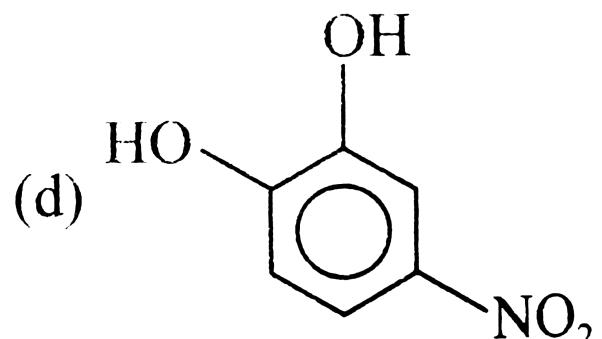


The major product $[\text{P}]$ is





(C)



(D)

CORRECT ANSWER: B

SOLUTION:

Due to lesser steric hindrance of $-OH$ than of $-NO_2$.

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Q-28 - 12662483

Ortho -nitrophenol is less soluble in water than *p*-and *m* – nitrophenols because

(A) *o*-nitrophenol is more volatile than those of the

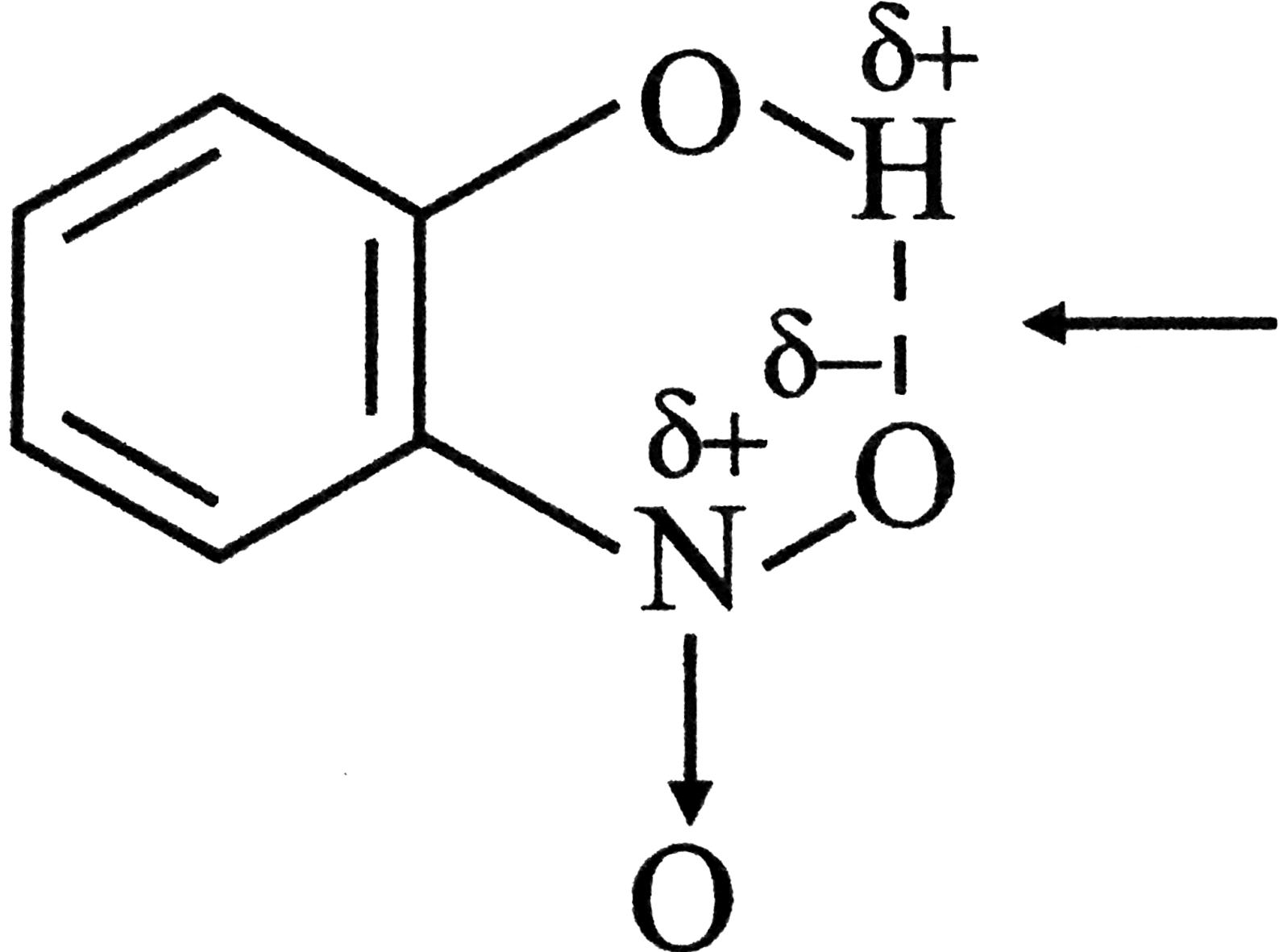
and *p*-isomers.

- (B) *o*-nitrophenol shows intermolecular *H*-bonding
- (C) *o*-nitrophenol shows intermolecular *H*-bonding
- (D) melting point of *o*-nitrophenol is lower than those of
m-and *p* – isomers
-

CORRECT ANSWER: B

SOLUTION:

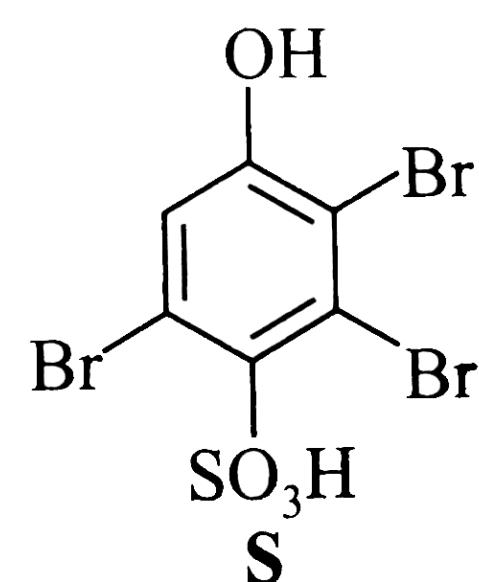
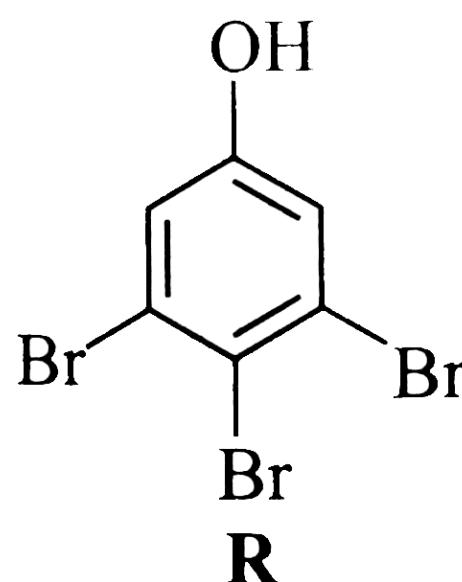
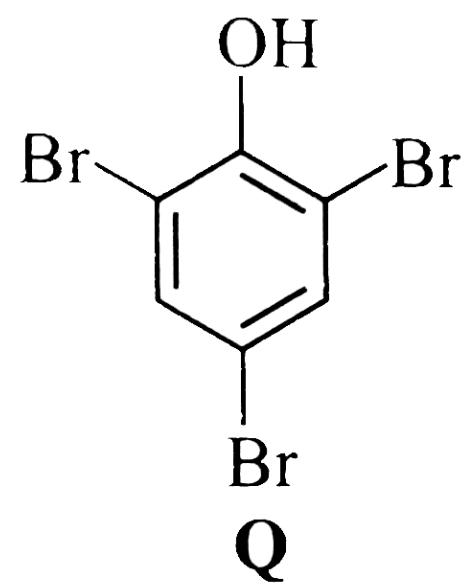
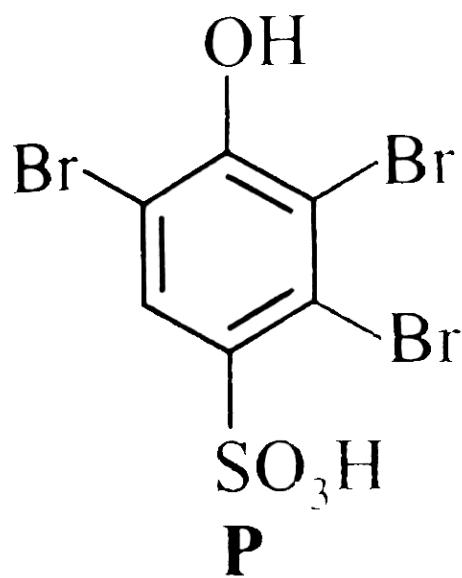
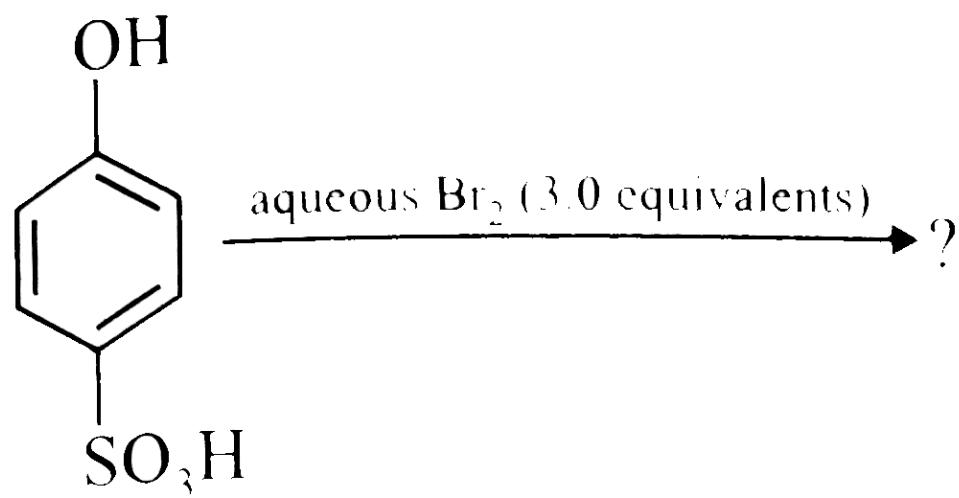
There is intramolecular *H*-bonding in *o*-nitrophenol and thus solubility in water is decreased.



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Q-29 - 12662493

The major product (s) of the following reaction is (are)



?

P

Q



R

S





(A) *P*

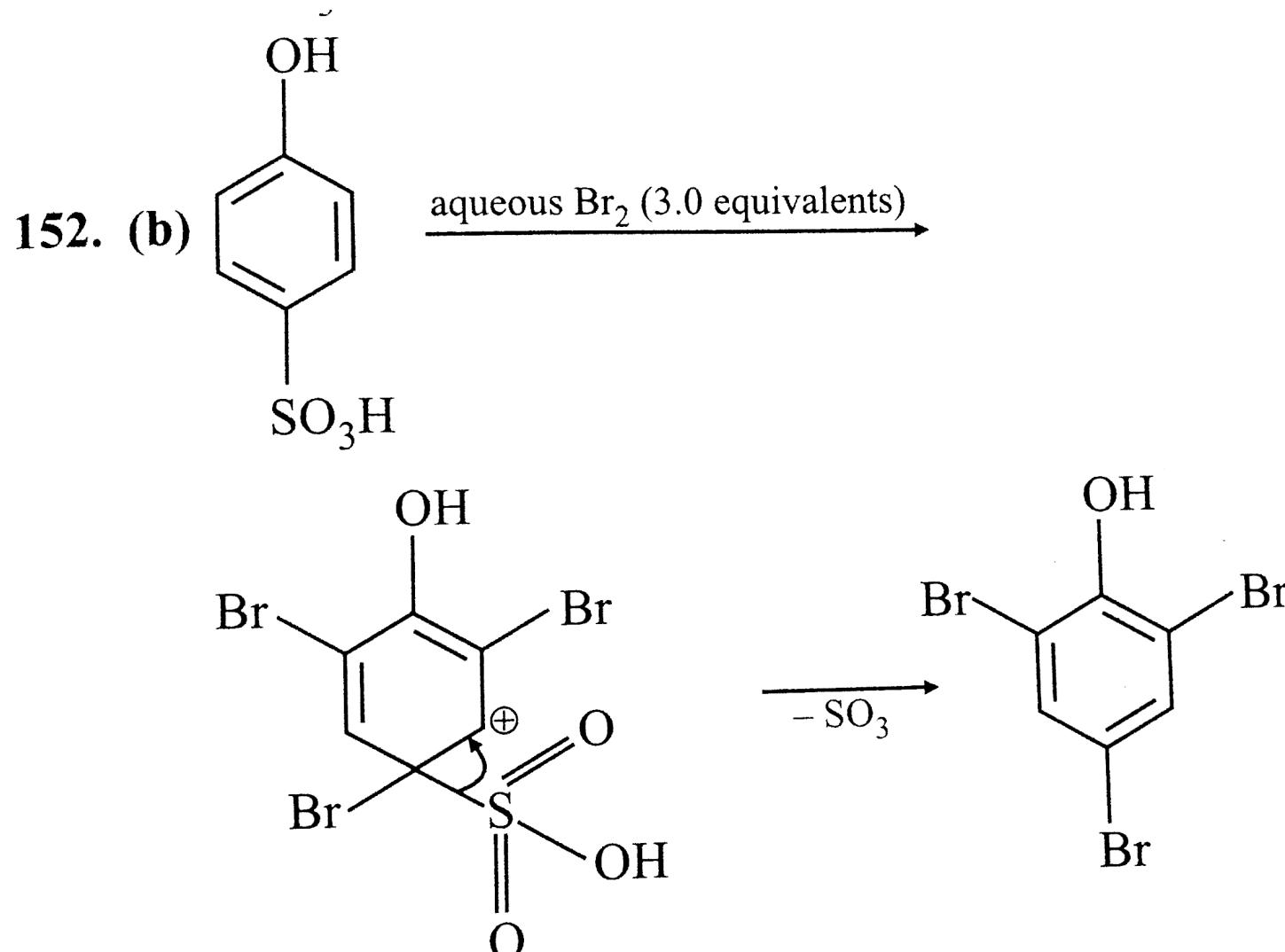
(B) *Q*

(C) *R*

(D) *S*

CORRECT ANSWER: B

SOLUTION:



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Q-30 - 12662496

In the Liebermann's nitroso reaction, sequential changes in the colour of phenol occurs as

(A) Brown or red \rightarrow green \rightarrow red \rightarrow deep blue

(B) Red \rightarrow deep blue \rightarrow green

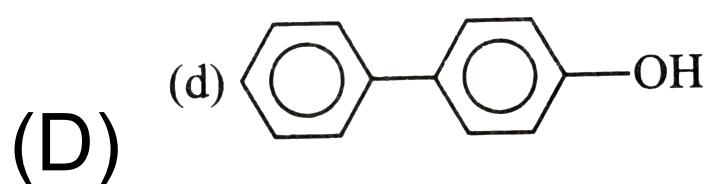
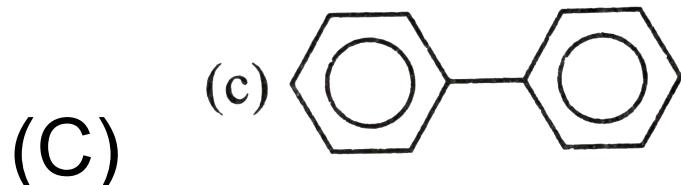
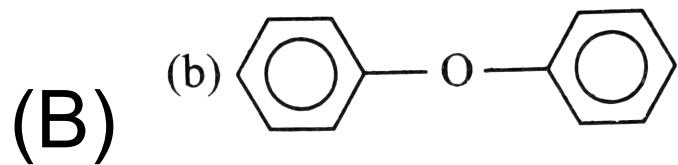
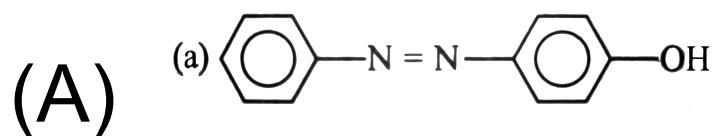
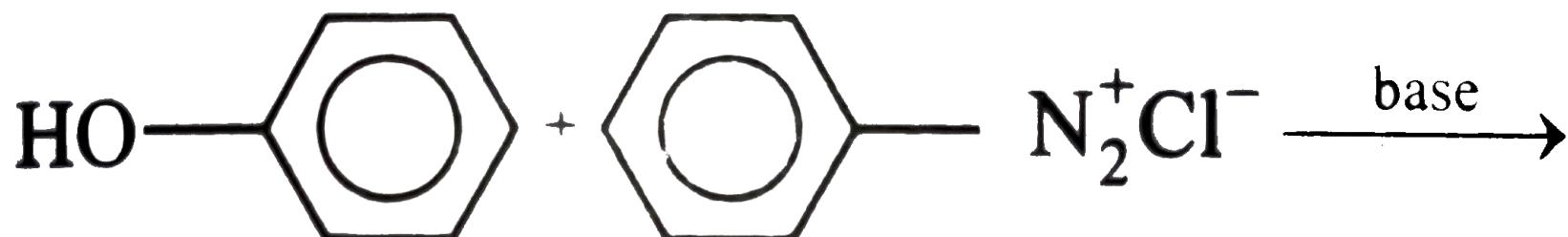
(C) Red \rightarrow green \rightarrow white

(D) White → red → green

CORRECT ANSWER: A

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Q-31 - 12662497



CORRECT ANSWER: A

SOLUTION:

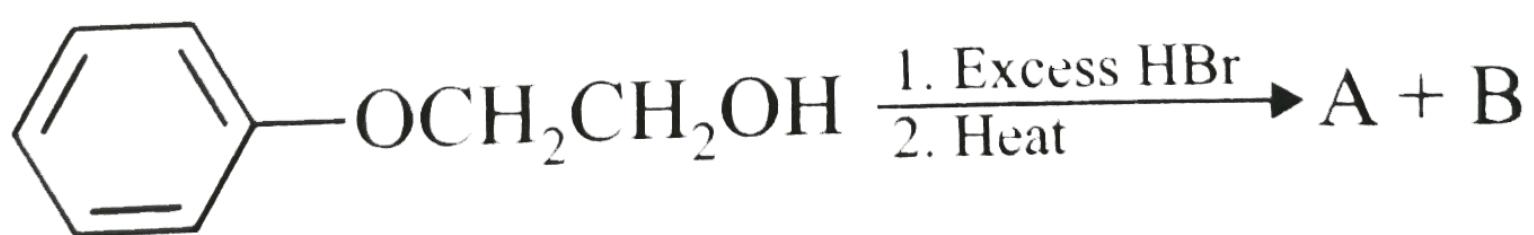


This is an example of coupling reaction.

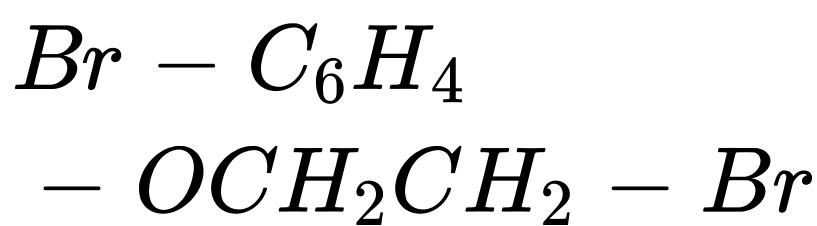
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Q-32 - 12662500

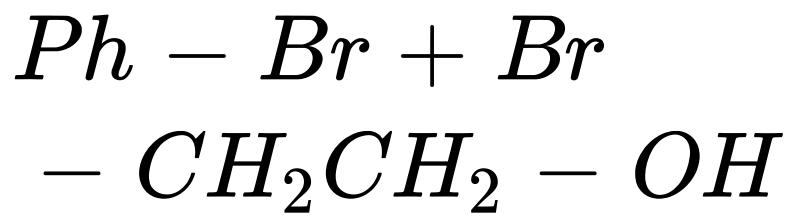
What are the products of the following reaction?



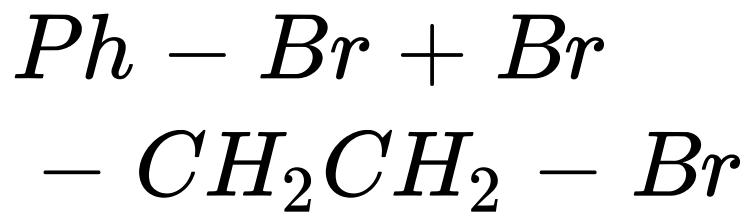
(A)



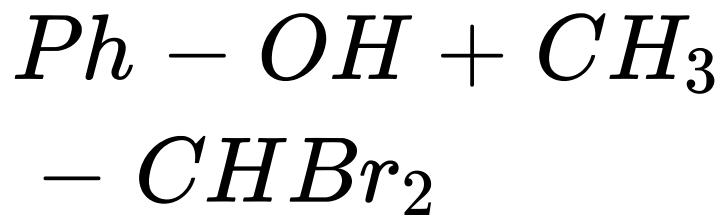
(B)



(C)

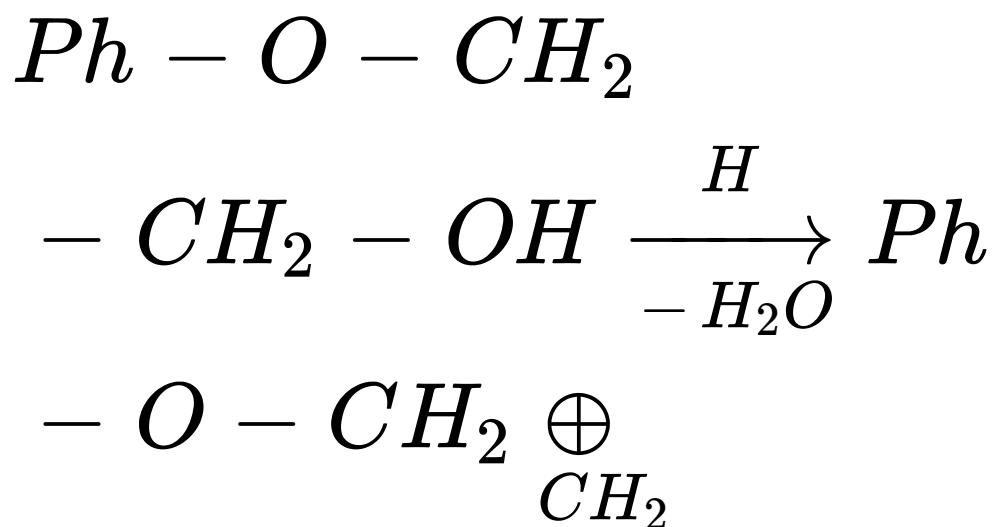


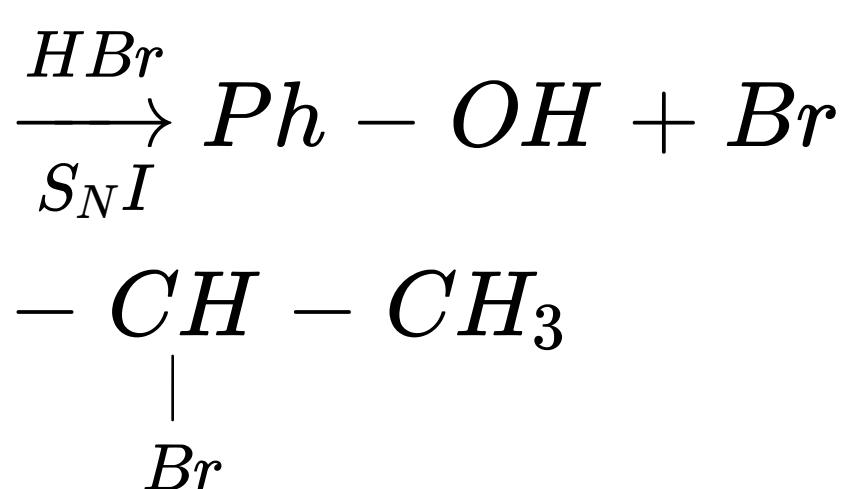
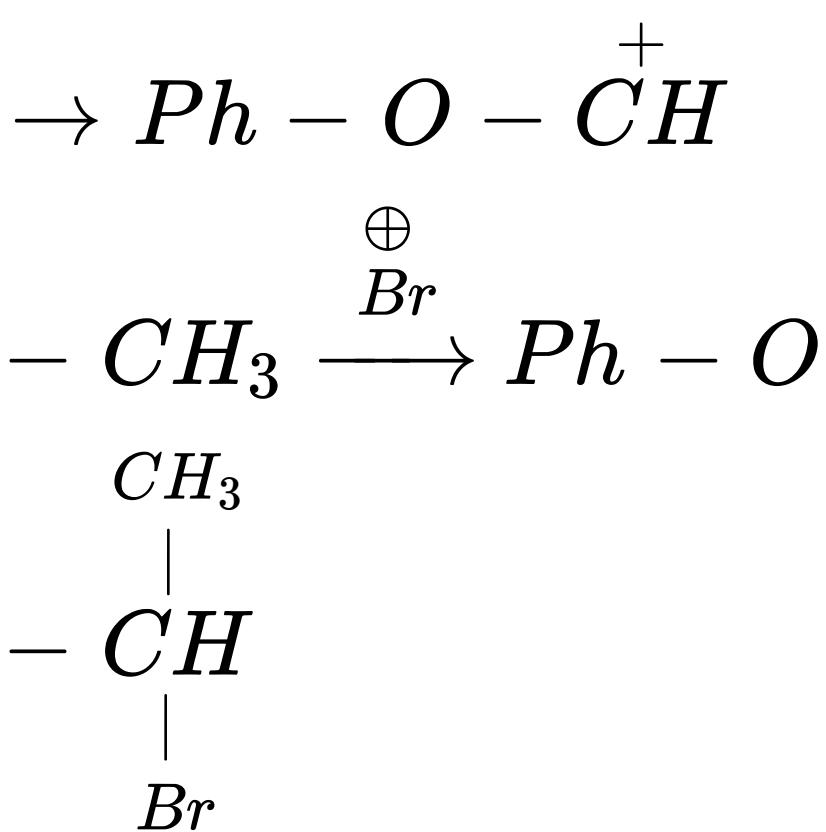
(D)



CORRECT ANSWER: D

SOLUTION:

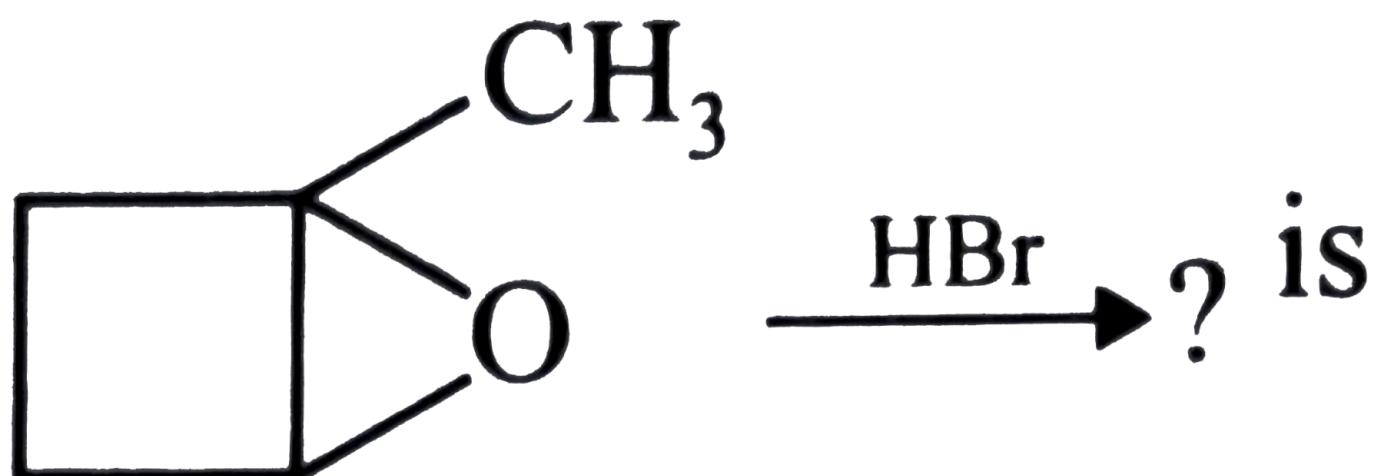


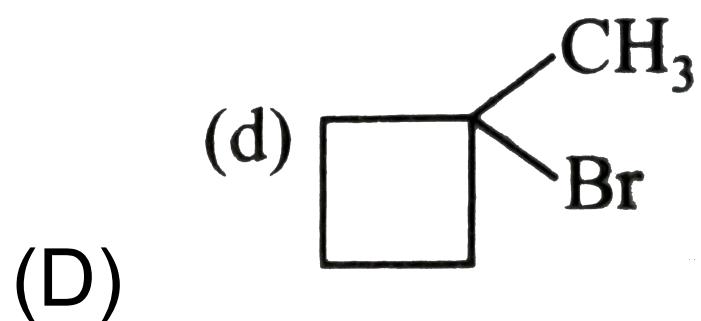
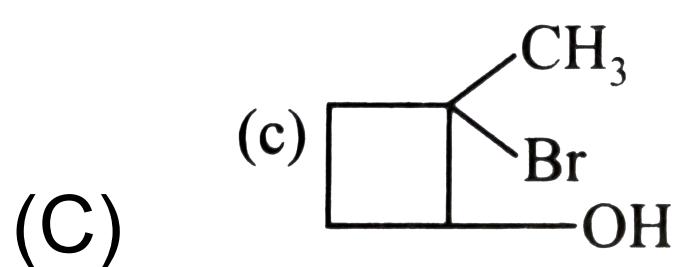
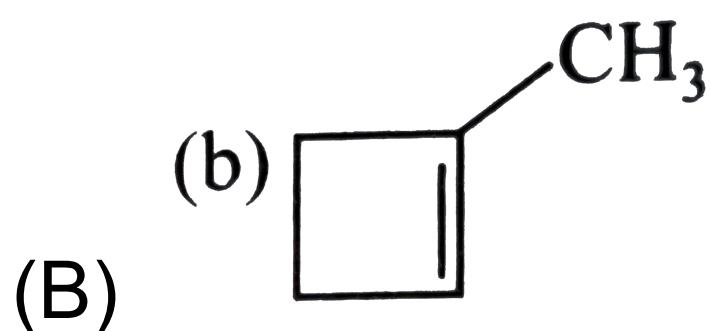
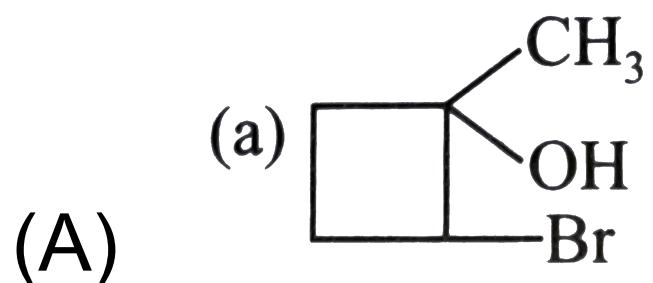


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Q-33 - 12662502

The product in the reaction

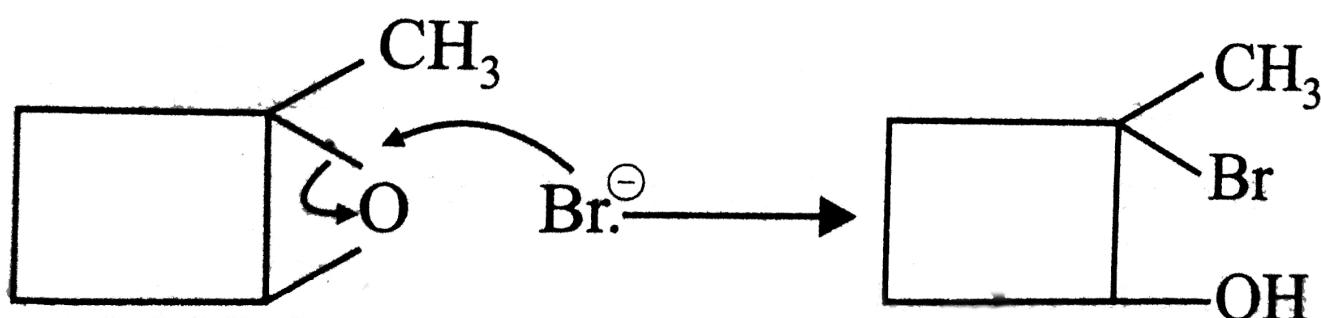




CORRECT ANSWER: C

SOLUTION:

Acid-catalysed ring opening of epoxides involves a nucleophilic attack at a more substituted carbon atom.



Q-34 - 12662503

The Williamson ether synthesis follows the following mechanism-

(A) Nucleophilic substitution

(B) Nucleophilic addition

(C) Electrophilic addition

(D) Electrophilic substitution

CORRECT ANSWER: D

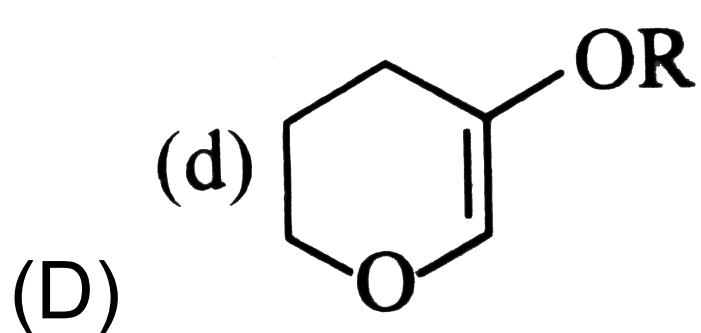
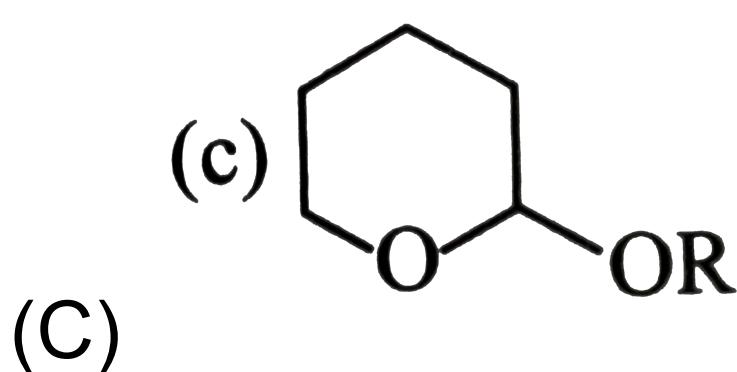
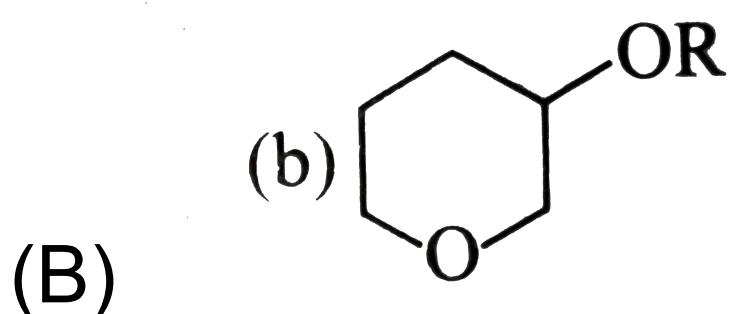
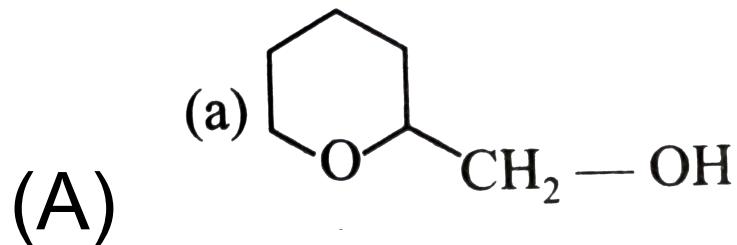
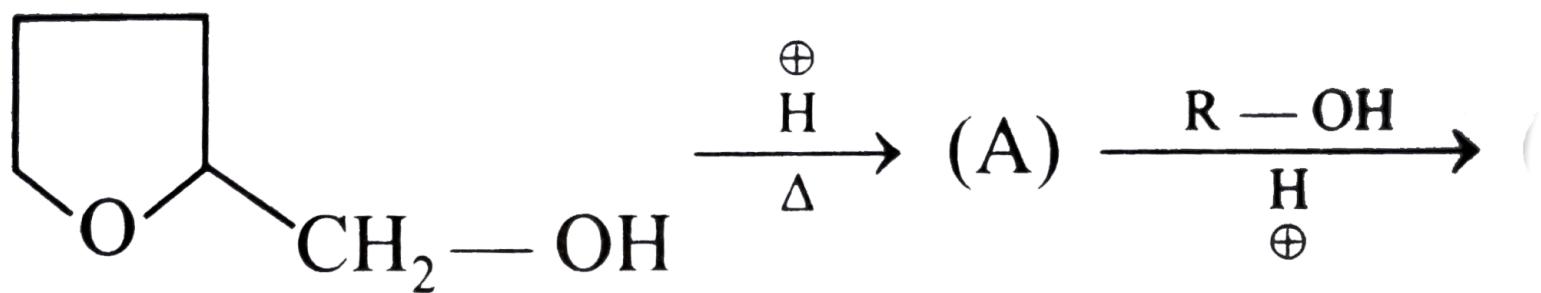
SOLUTION:

Factual

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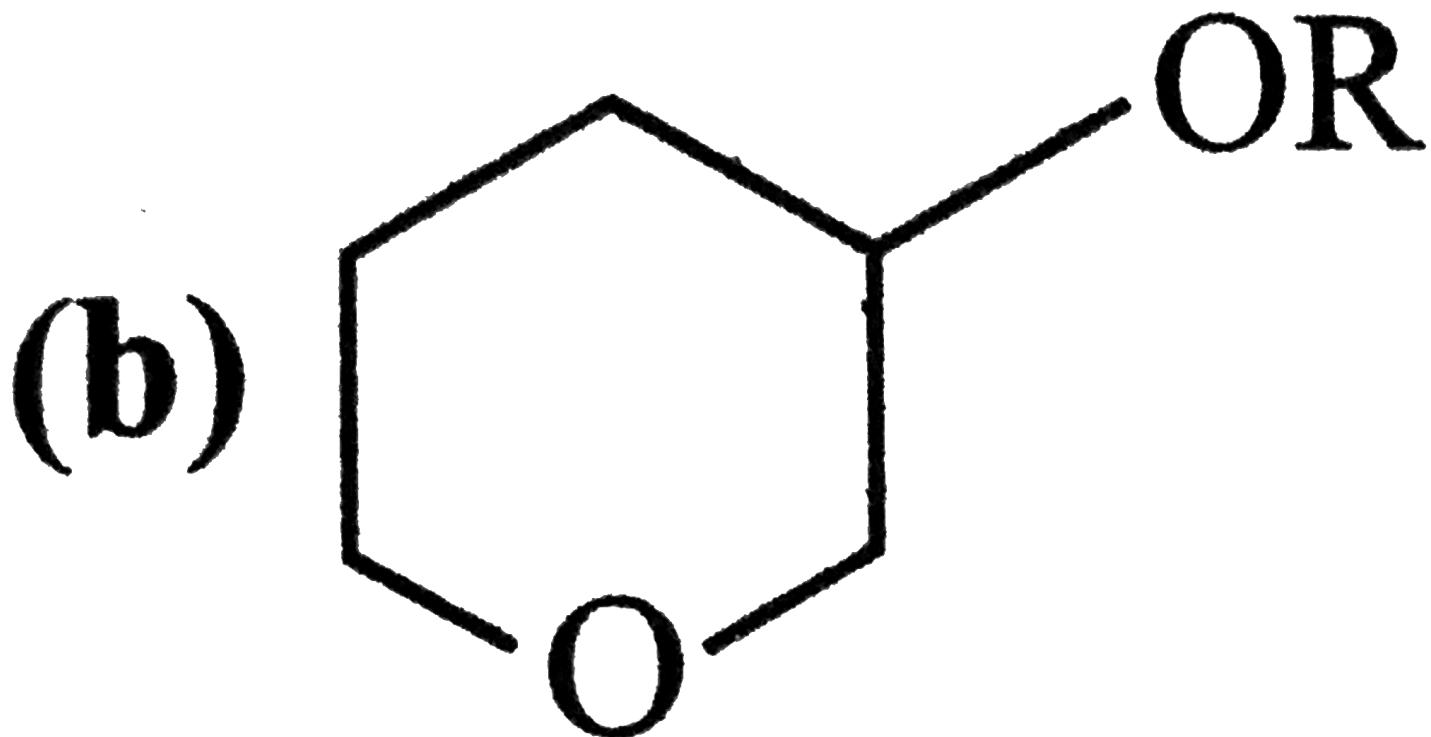
Q-35 - 12662504

Product (*B*) in the following reaction is



CORRECT ANSWER: B

SOLUTION:



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Q-36 - 12662517

The products formed in the following reaction



(A) $C_6H_5 - I$ and $CH_3 - OH$

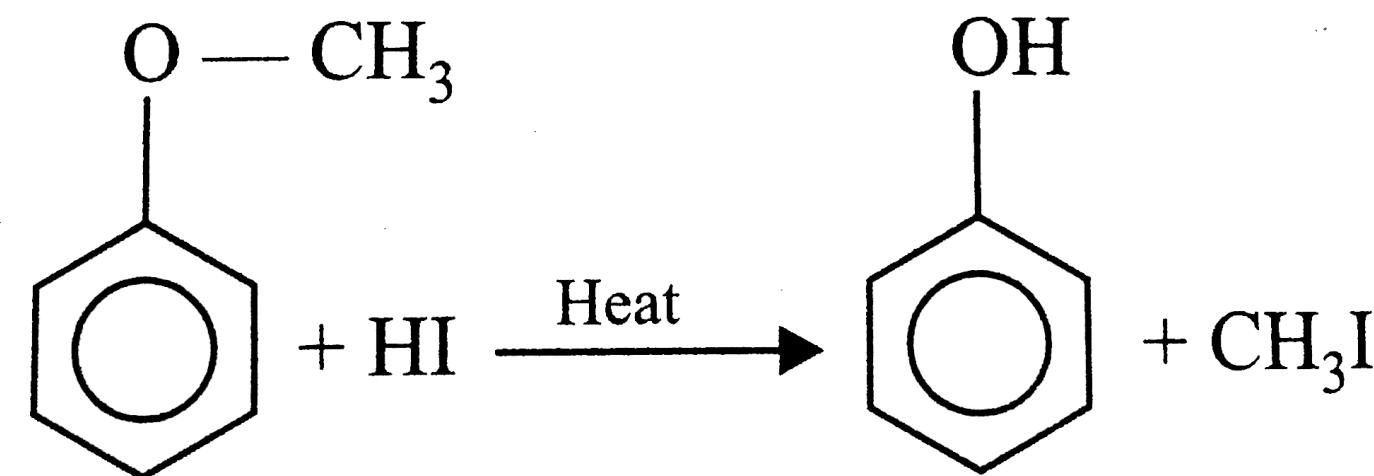
(B) C_6H_6 and CH_3OI

(C) $C_6H_5 - CH_3$ and HOI

(D) $C_6H_5 - OH$ and $CH_3 - I$

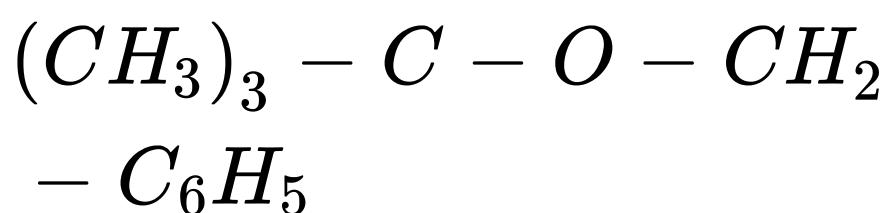
CORRECT ANSWER: D

SOLUTION:



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Q-37 - 12662518



can be prepared from Williamson's synthesis, using:

(A) (CH₃)₃-C-Cl and C₆H₅CH₂ONa

(B) C₆H₅CH₂Cl and (CH₃)₃C-ONa

(C)

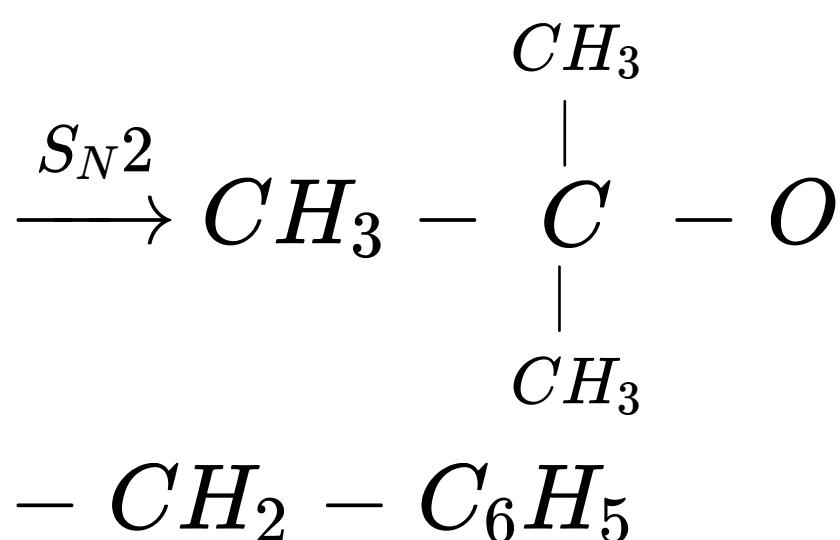
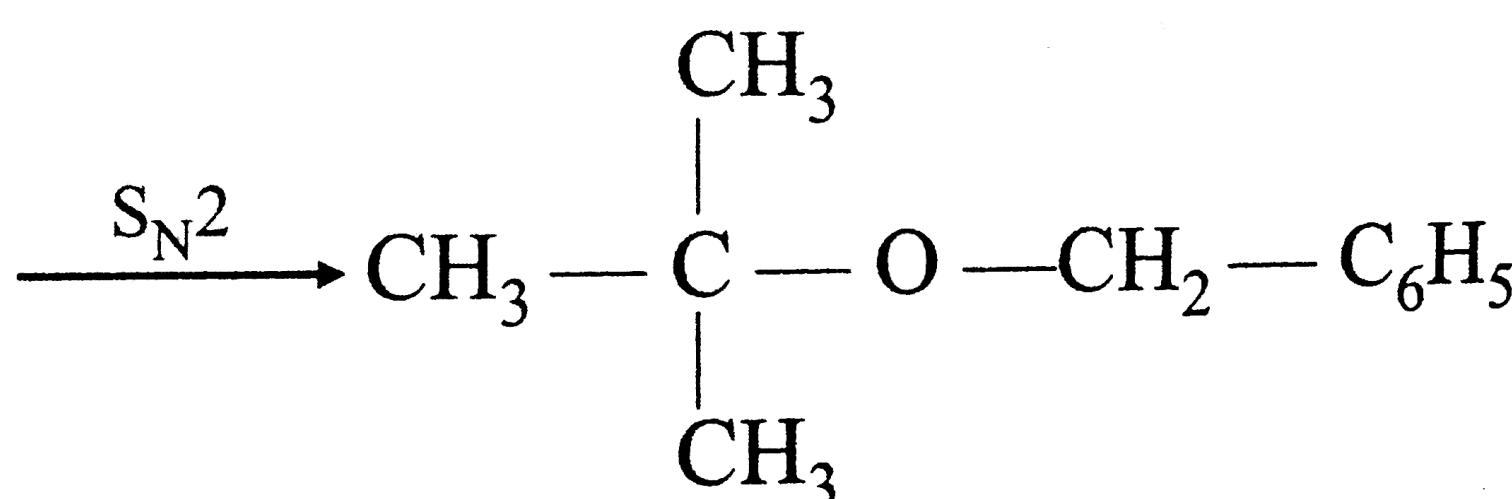
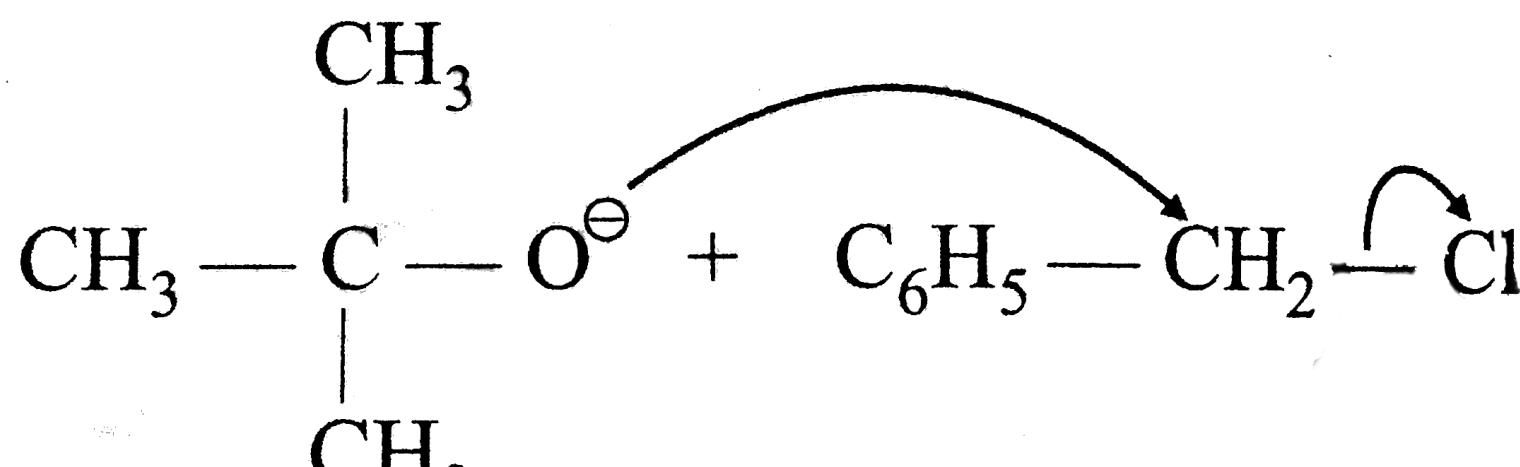
(CH₃)₃C-O-CH₂
- CI

and C₆H₅ONa

(D) All of these

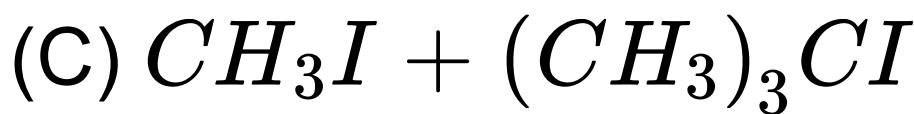
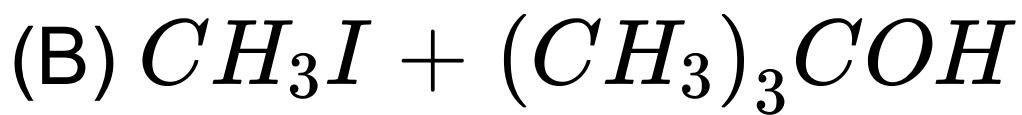
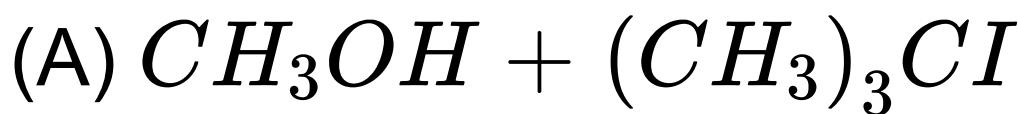
CORRECT ANSWER: B

SOLUTION:



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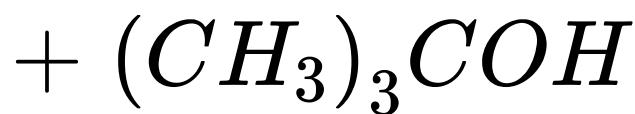
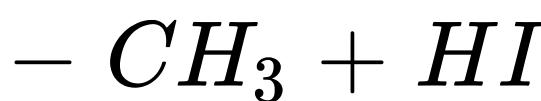
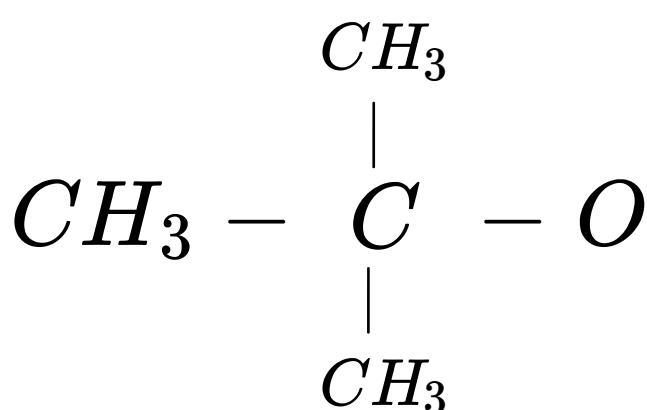
Methyl – tert-butyl ether on heating with HI of one molar concentration gives



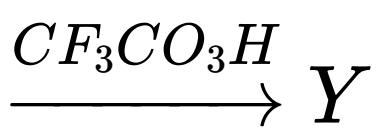
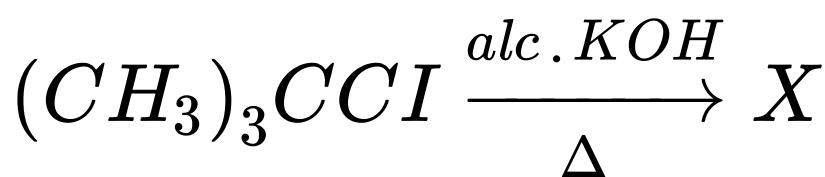
(D) None of the above

CORRECT ANSWER: B

SOLUTION:

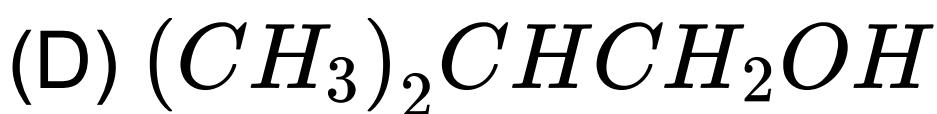
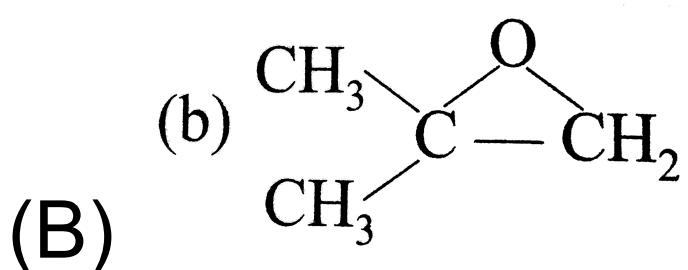
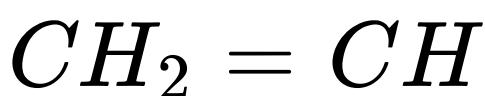


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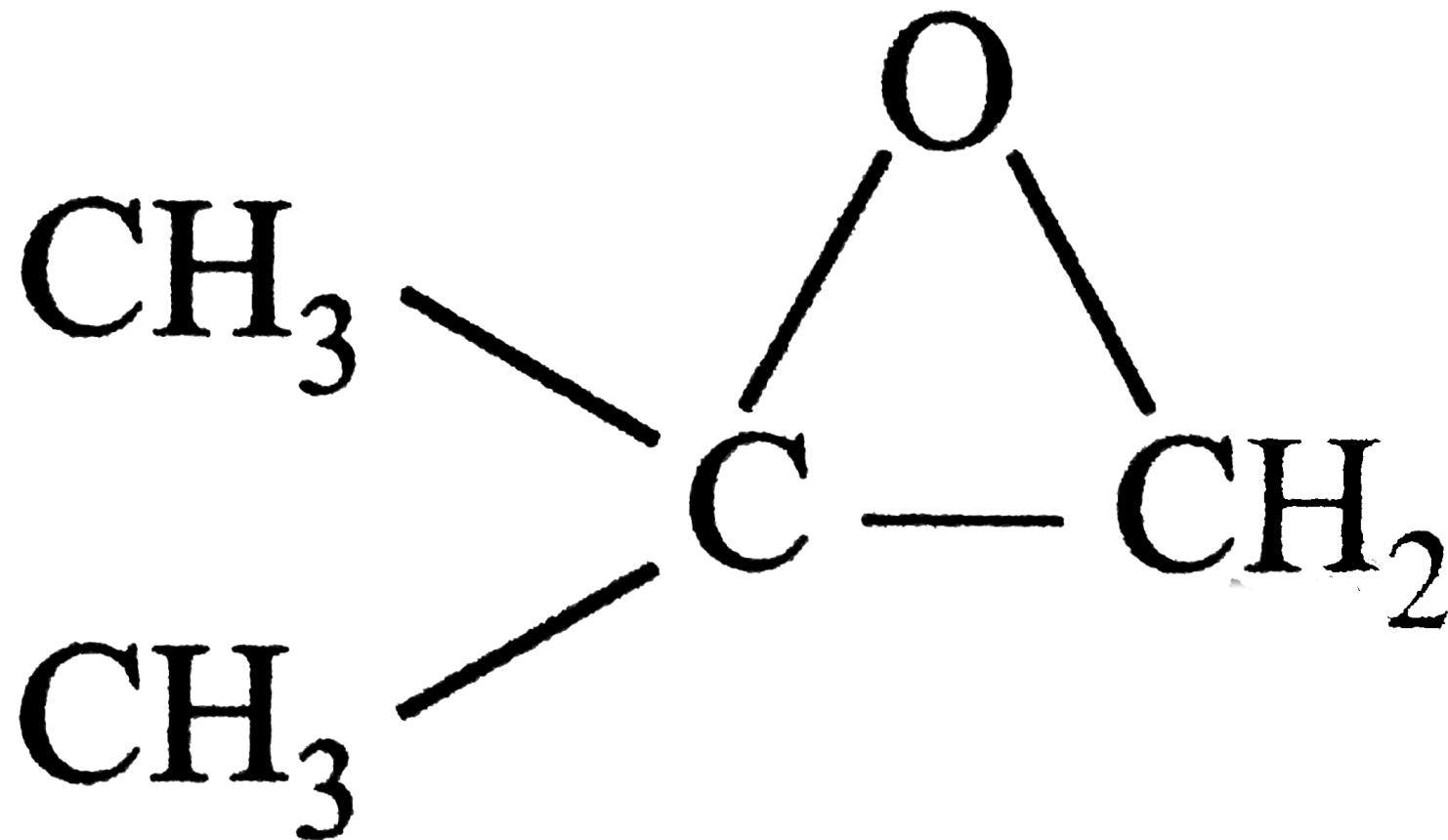
The product 'Y' is

(A)



CORRECT ANSWER: B

SOLUTION:



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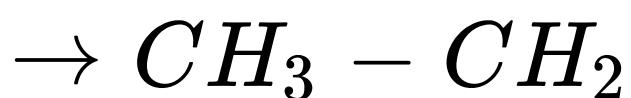
Q-40 - 12662569

Which of the following reagents convert the propene to 1-propanol?

- (A) H₂O, H₂SO₄
- (B) Aqueous KOH
- (C)
MgSO₄, NaBH₄
/ H₂O
- (D) B₂H₆, H₂O₂, OH⁻

CORRECT ANSWER: B

SOLUTION:



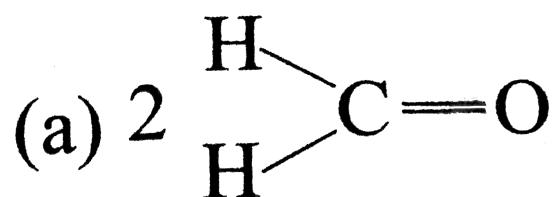
Propenol-1

Propene-1

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Q-41 - 12662578

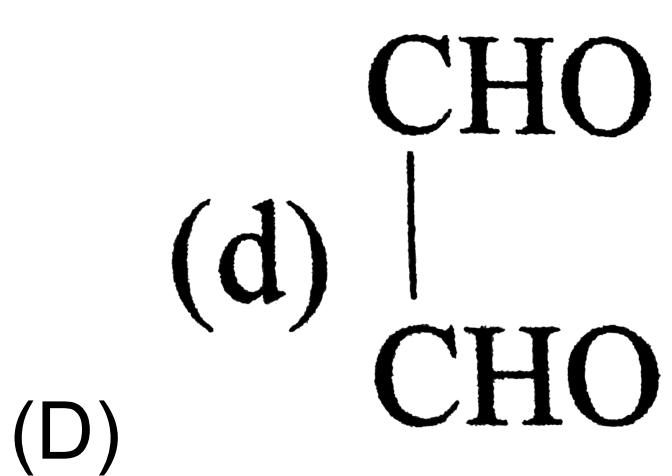
CH_2OHCH_2OH on heating with periodic acid gives



(A)

(B) $2CO_2$

(C) $2HCOOH$



CORRECT ANSWER: A

SOLUTION:

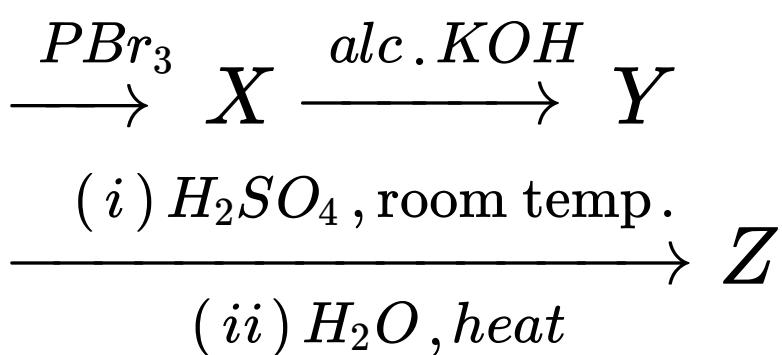


HIO_4 oxidizes – CH_2OH to HCHO and breaks the $\text{C} - \text{C}$ bond of terminal CH_2OH groups.

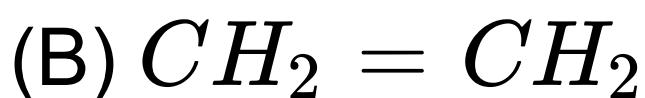
Q-42 - 12662579

Consider the following reaction

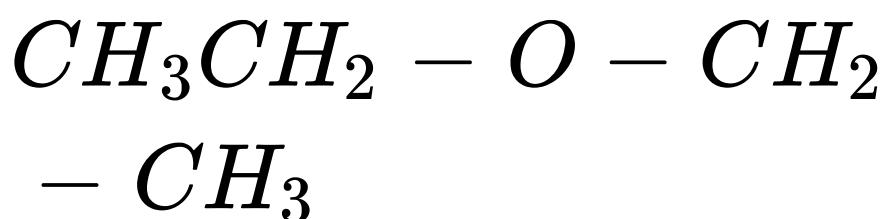
ethanol



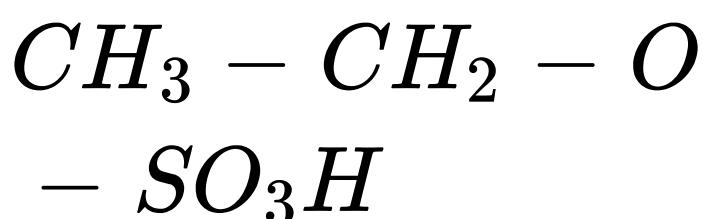
the product Z is



(C)

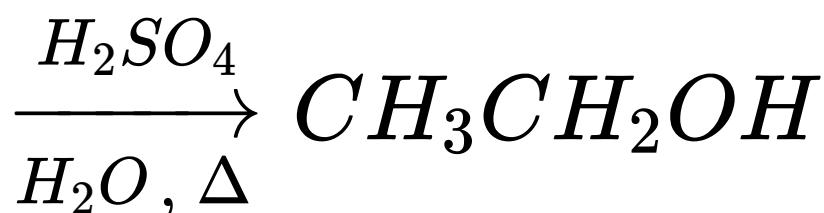


(D)



CORRECT ANSWER: A

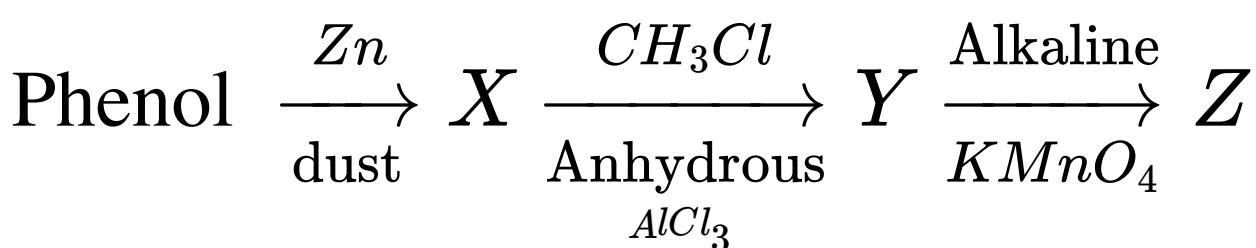
SOLUTION:



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Q-43 - 12662580

Consider the following reaction



The product Z is

(A) benzoic acid

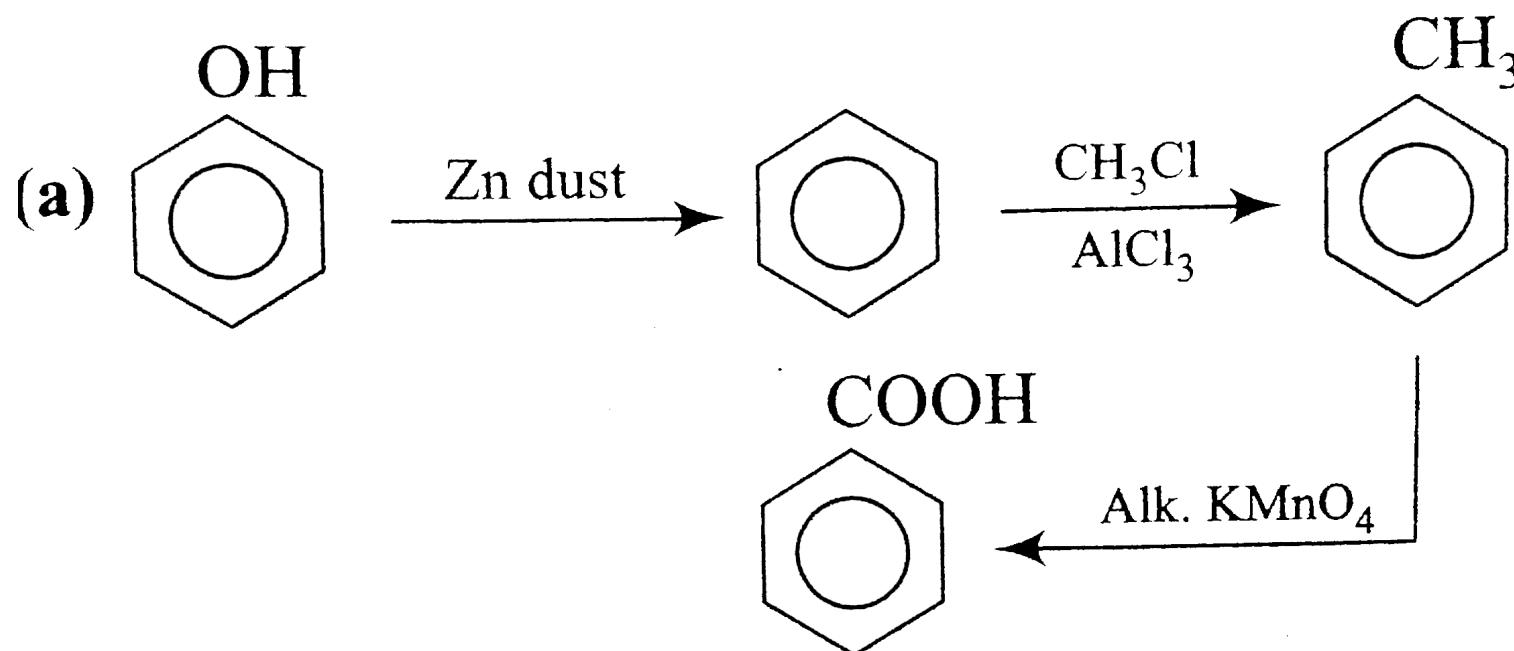
(B) toluene

(C) benzaldehyde

(D) benzene

CORRECT ANSWER: A

SOLUTION:



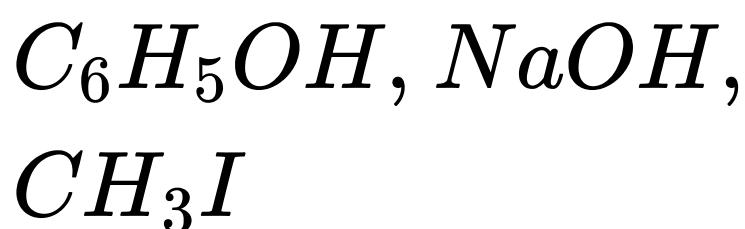
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Q-44 - 12662584

Among the following sets of reactants which one produces anisole?

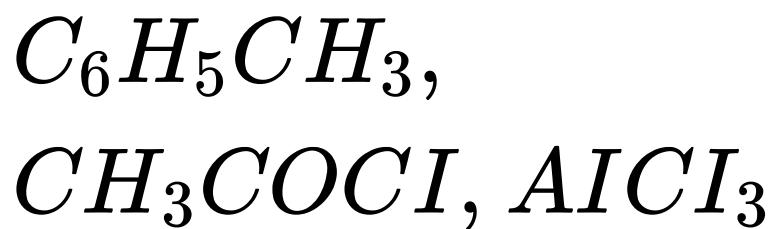
(A) CH_3CHO , RMgX

(B)



(C) C_6H_5OH , natural $FeCl_3$

(D)



CORRECT ANSWER: B

SOLUTION:

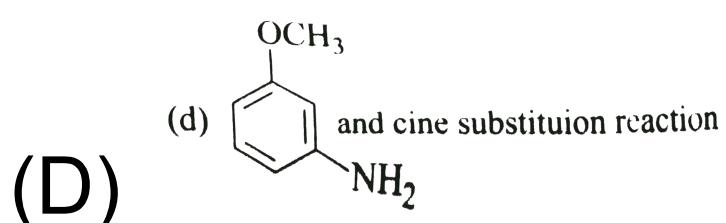
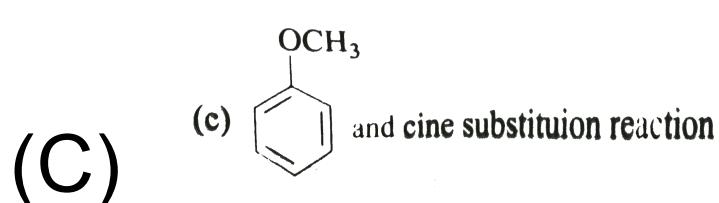
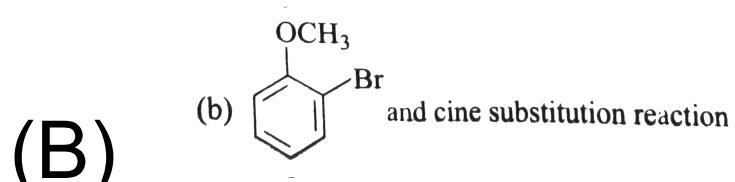
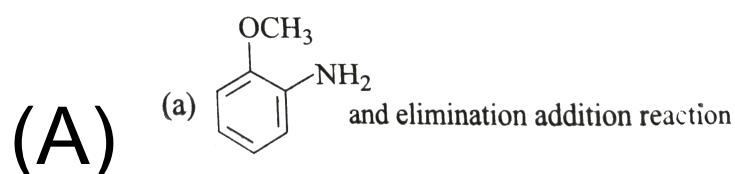
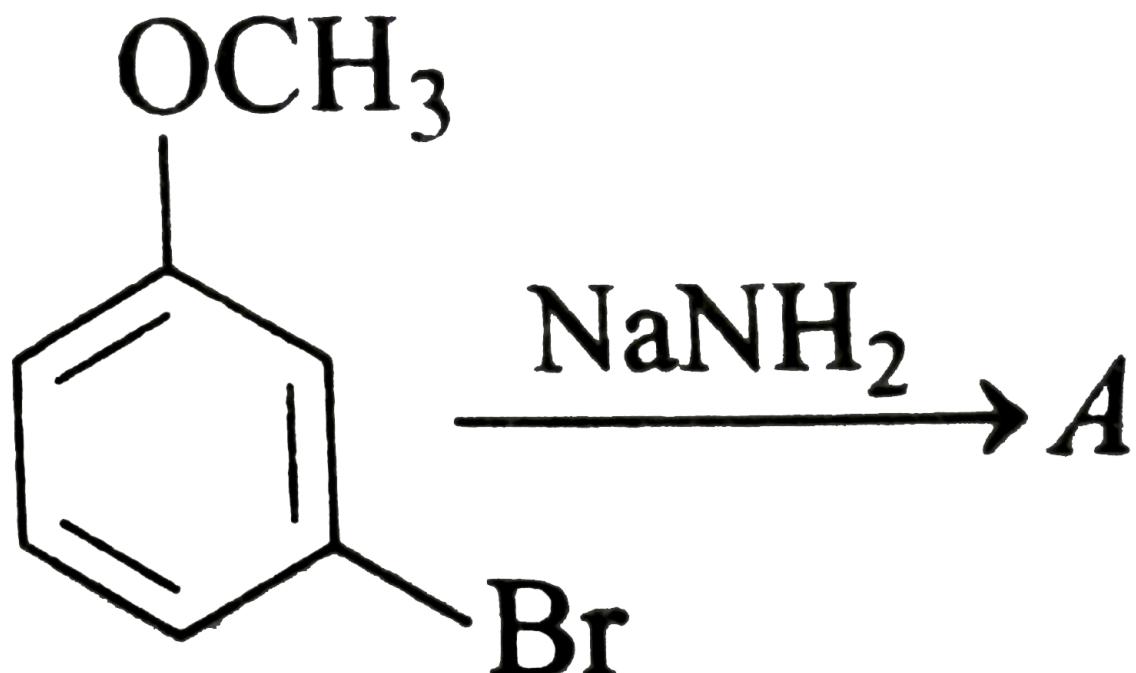
Phenols react with alkyl halides in alkaline medium to form ethers. Therefore,

`(#3A2Z_CHM_XII_C11_E01_225_S01.png"

width="80%">>

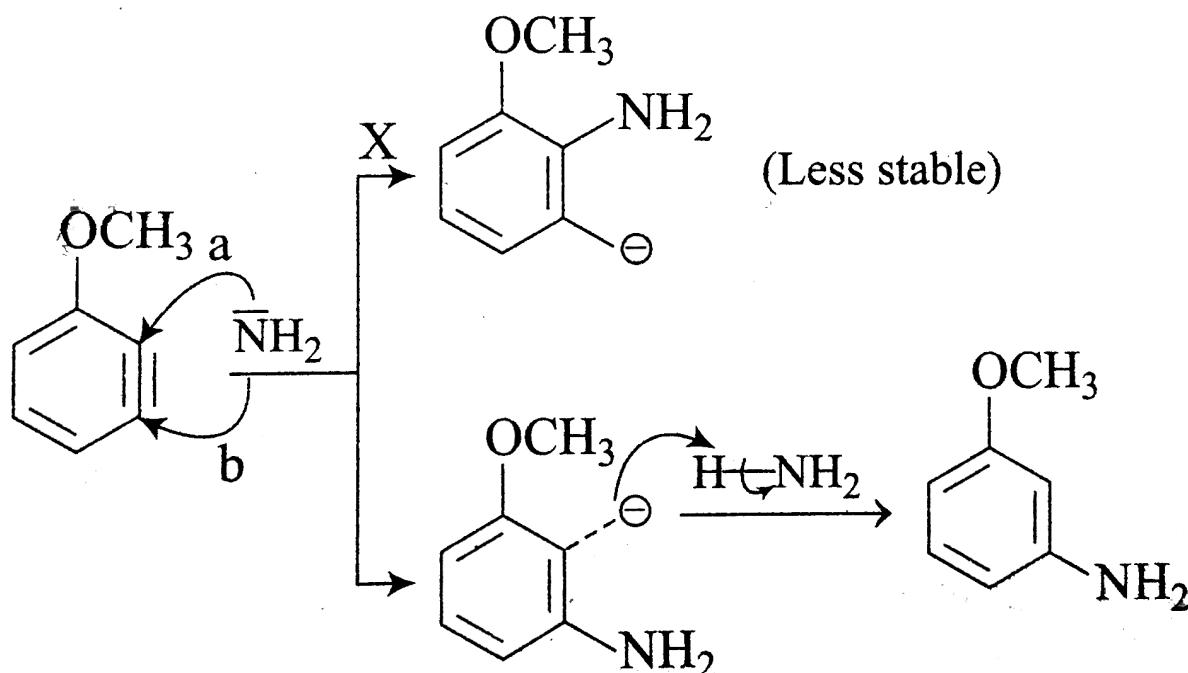
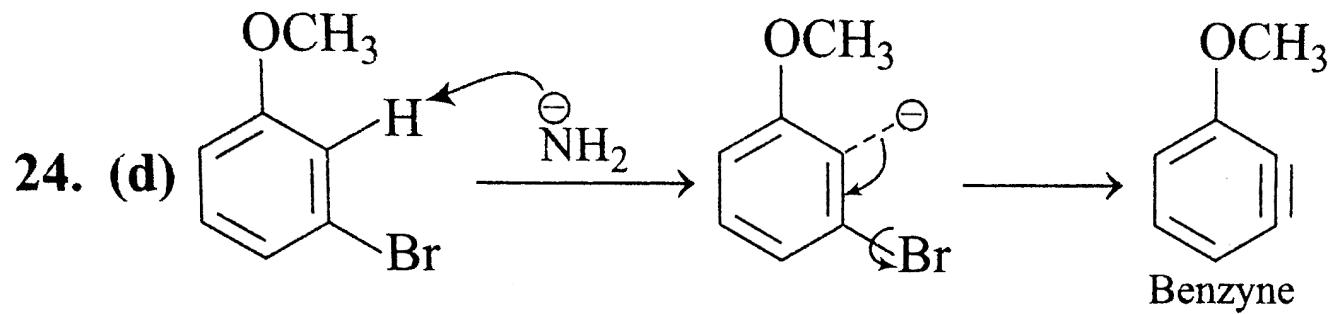
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Identify *A* and predict the type of reaction



CORRECT ANSWER: D

SOLUTION:



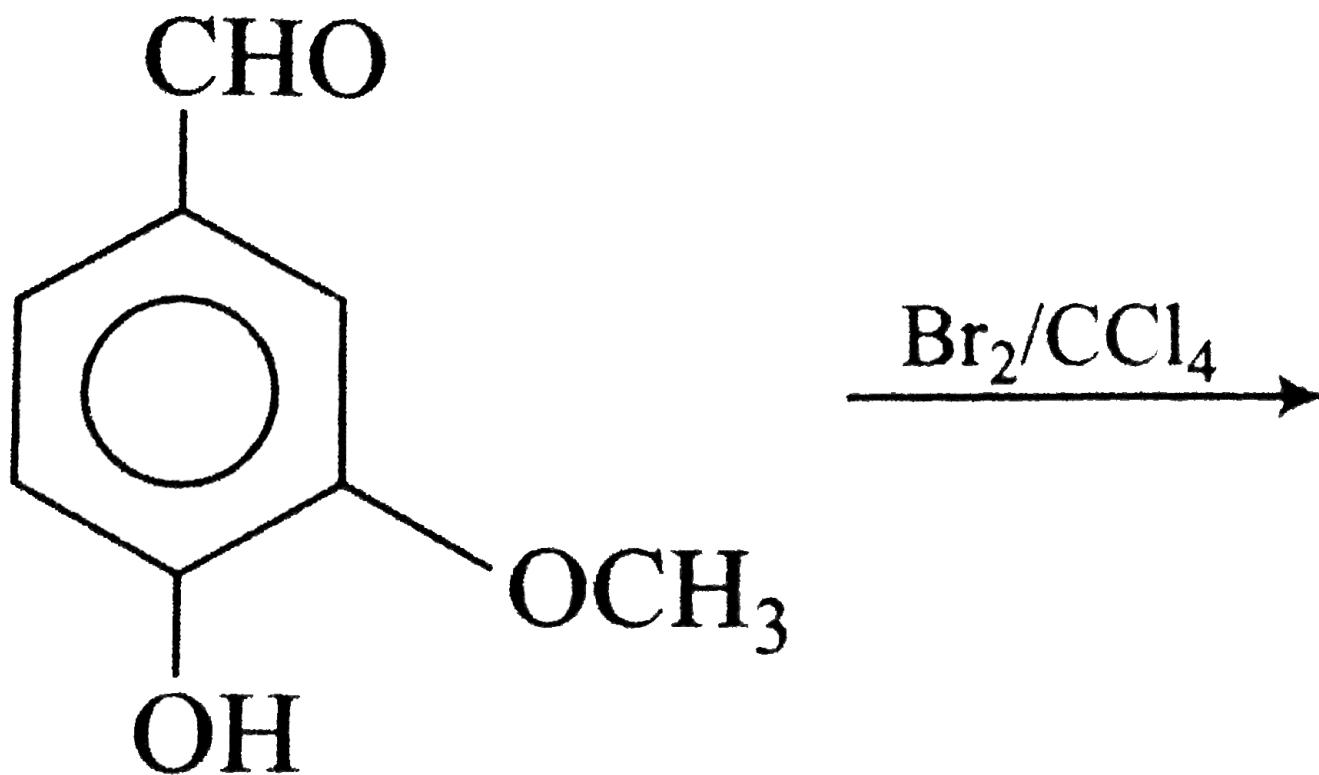
More stable *as-ve* change is close to electron

withdrawing group, because incoming nucleophile ends
on same 'C' on which 'Br' (Leaving Group) was present.

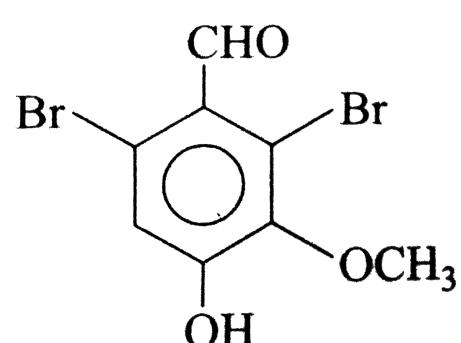
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Q-46 - 12662628

48.

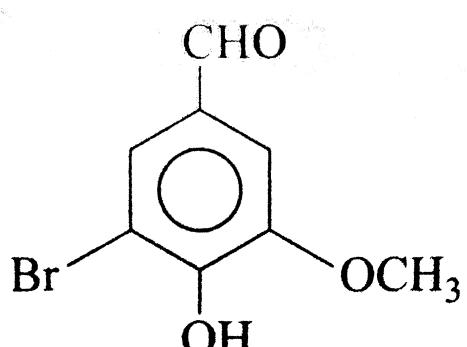


(a)



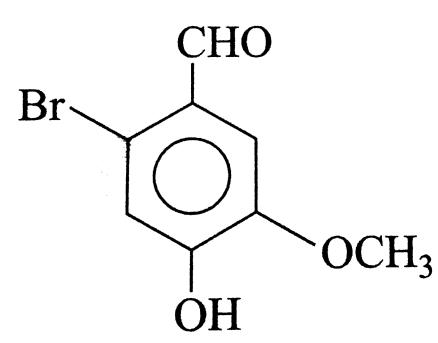
(A)

(b)



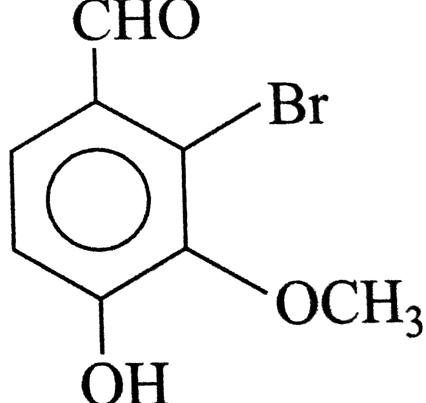
(B)

(c)



(C)

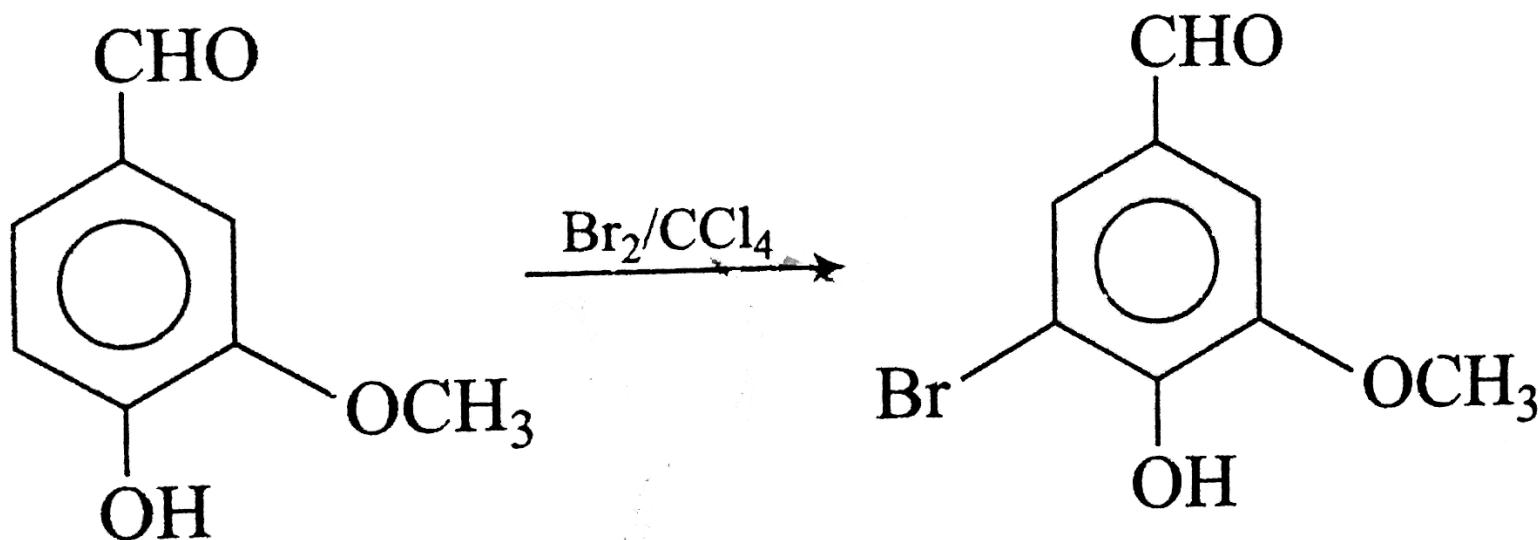
(d)



(D)

CORRECT ANSWER: B

SOLUTION:

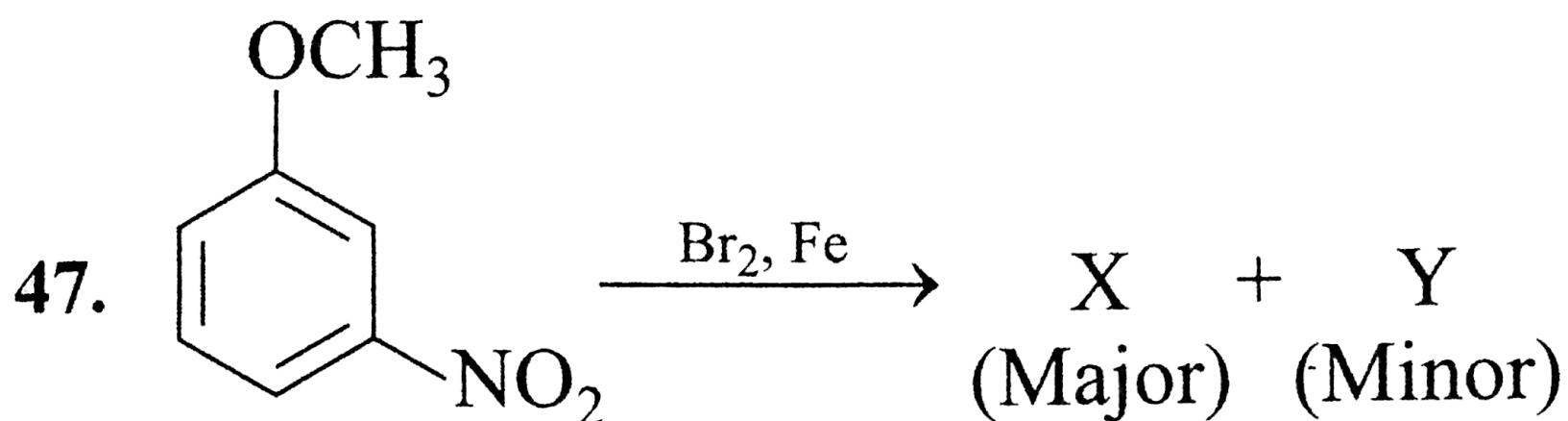


– *OH* group is more activating so attack of *Br* +

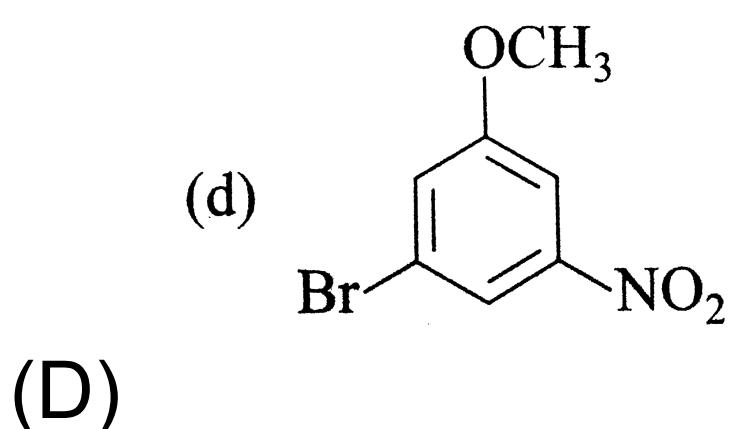
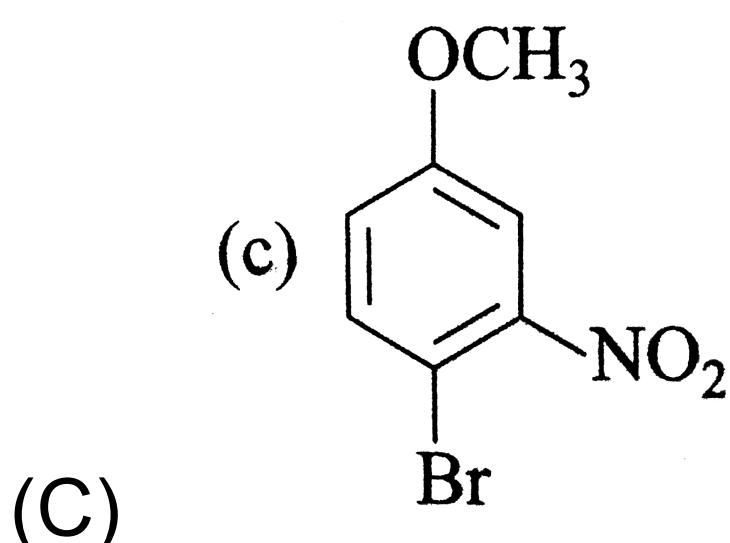
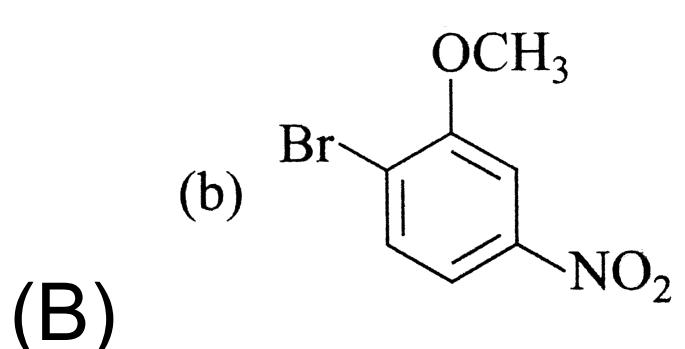
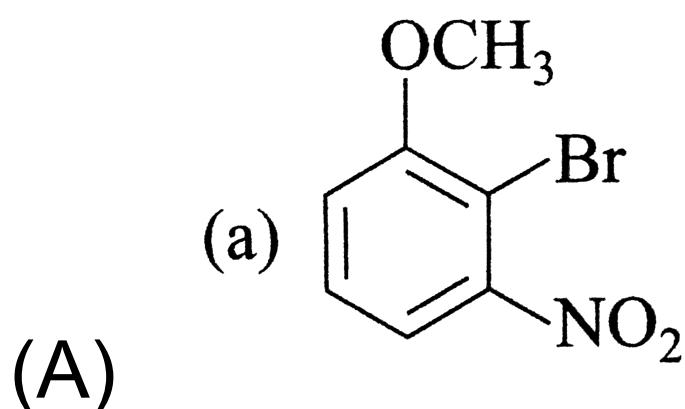
(electrophile) occurs at ortho position of – *OH* group

during *ESR*

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Identify X.



CORRECT ANSWER: C

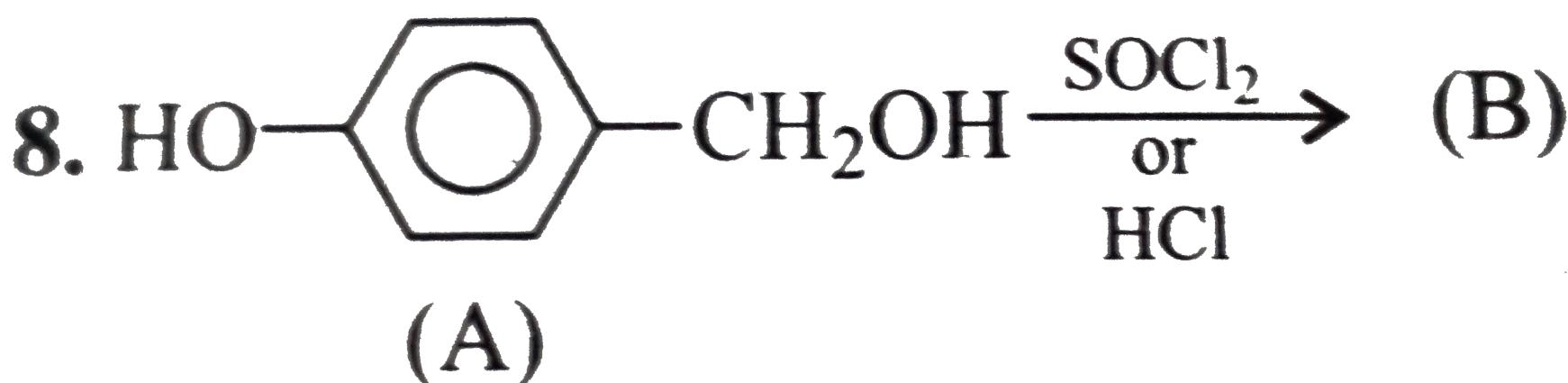
SOLUTION:

Activating nature of $-OCH_3$ group dominates over deactivating power of $-NO_2$.

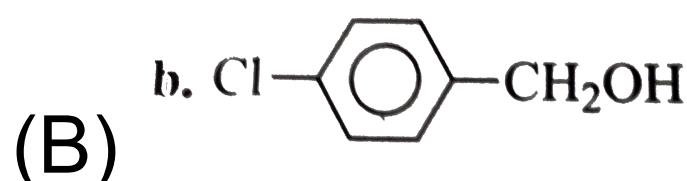
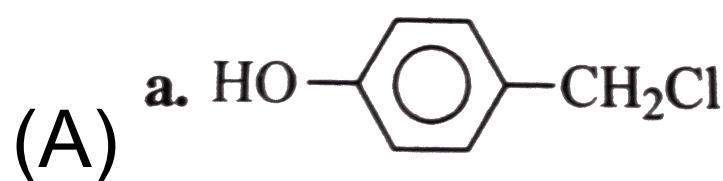
So, Para product w.r.t. $-OCH_3$ is major.

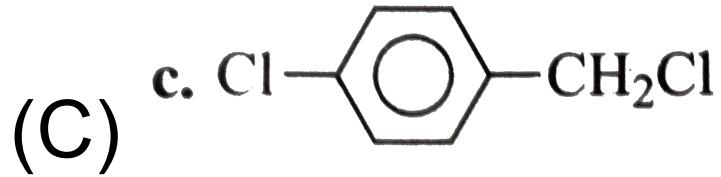
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Q-48 - 11485460



The product (B) is:





(D) All

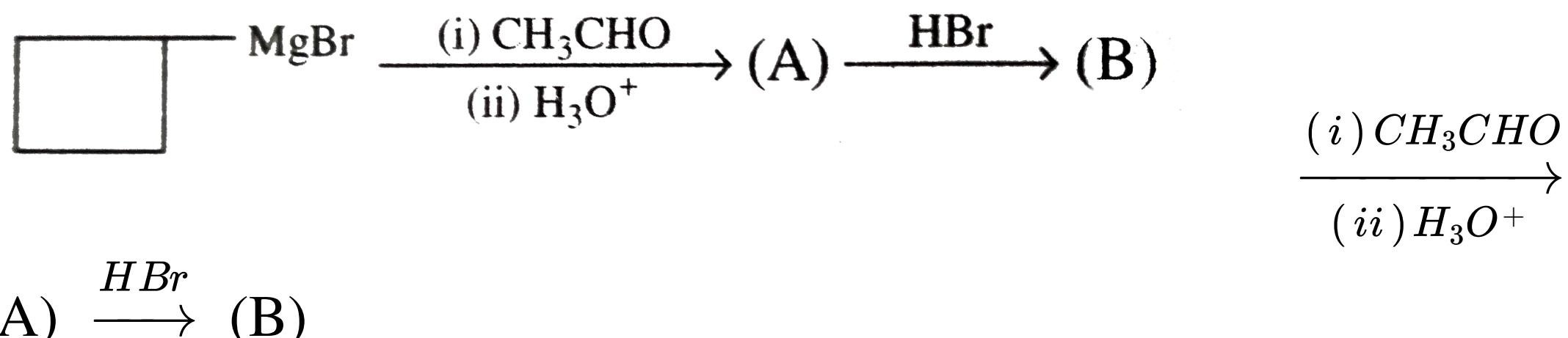
CORRECT ANSWER: A

SOLUTION:

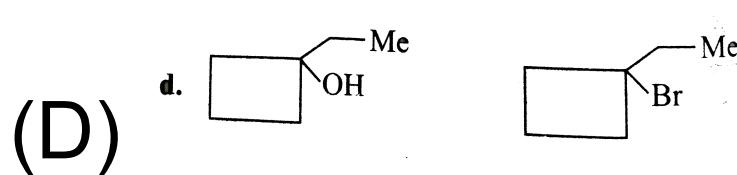
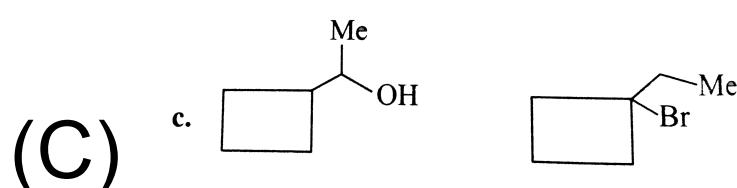
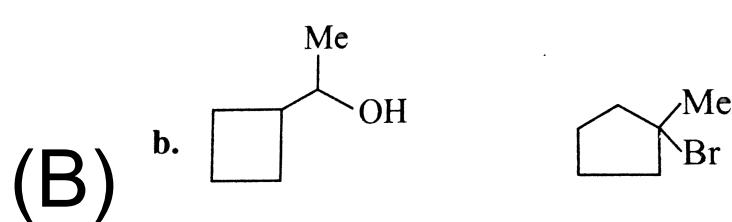
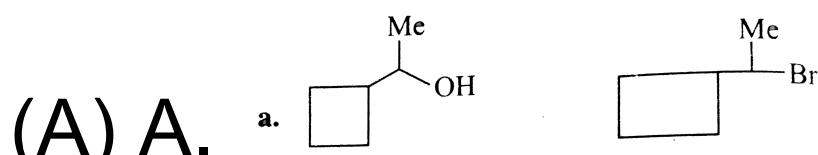
The cleavage of (C – OH) bond is feasible rather than cleavage of (Ar – OH) bond because of resonance stabilisation in ArOH.

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Q-49 - 11485475

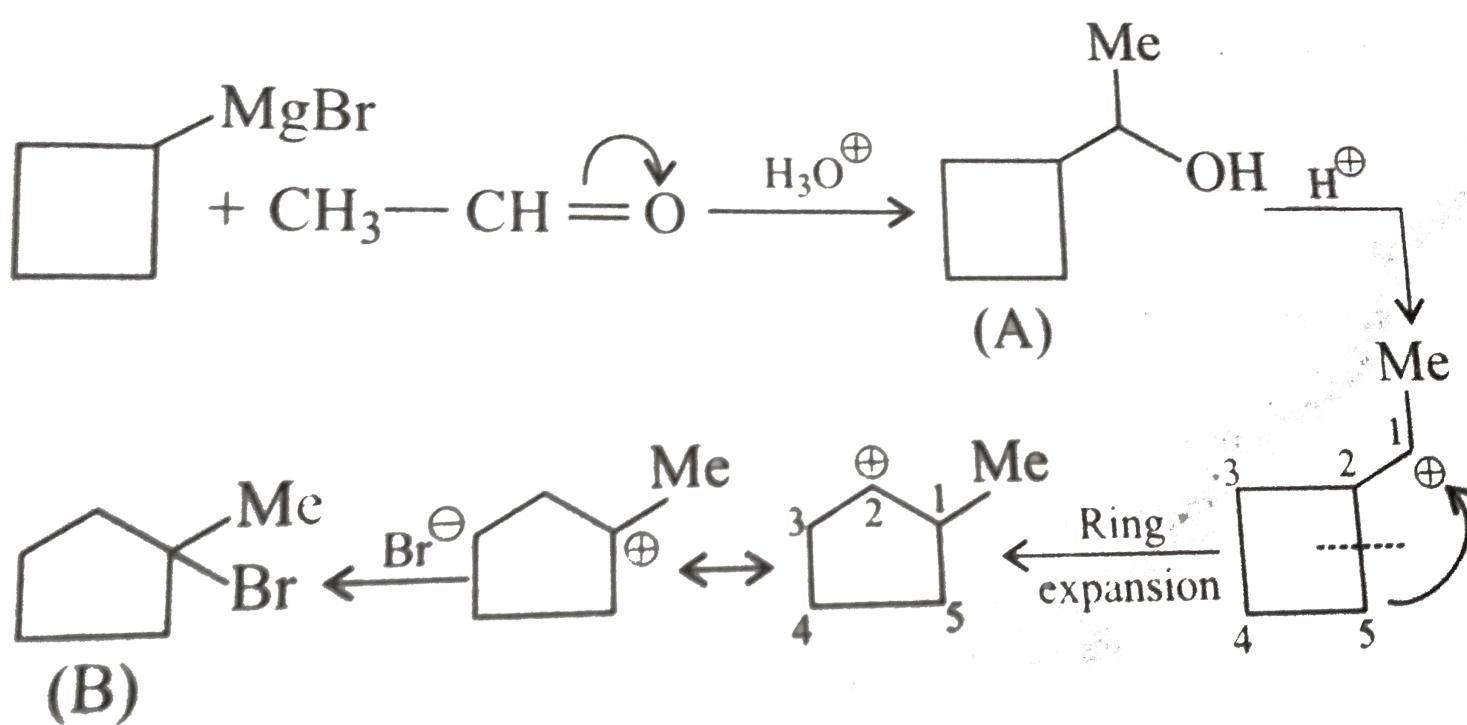


The compounds (A) and (B)

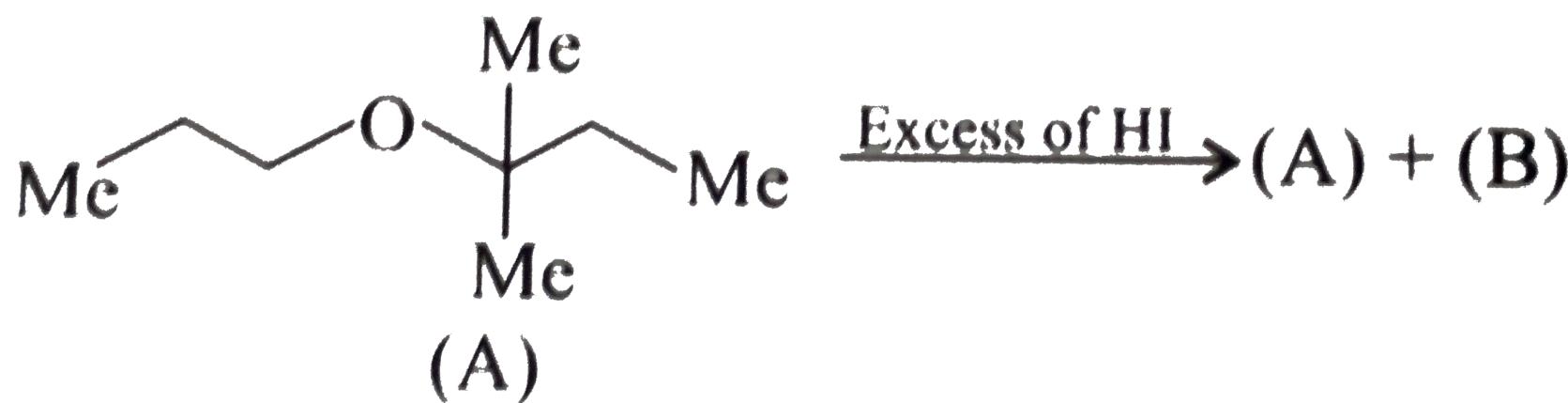


CORRECT ANSWER: B

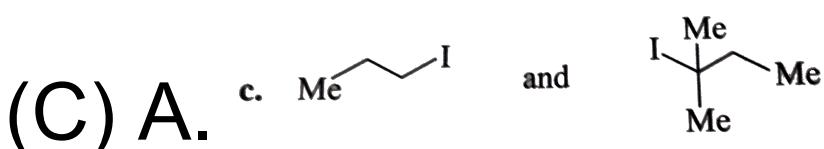
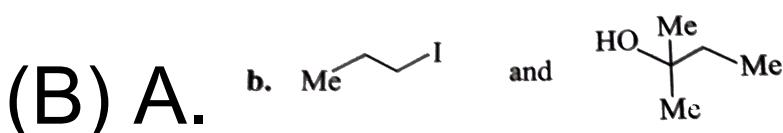
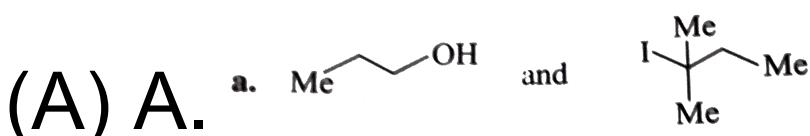
SOLUTION:



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The products (A) and (B) are:



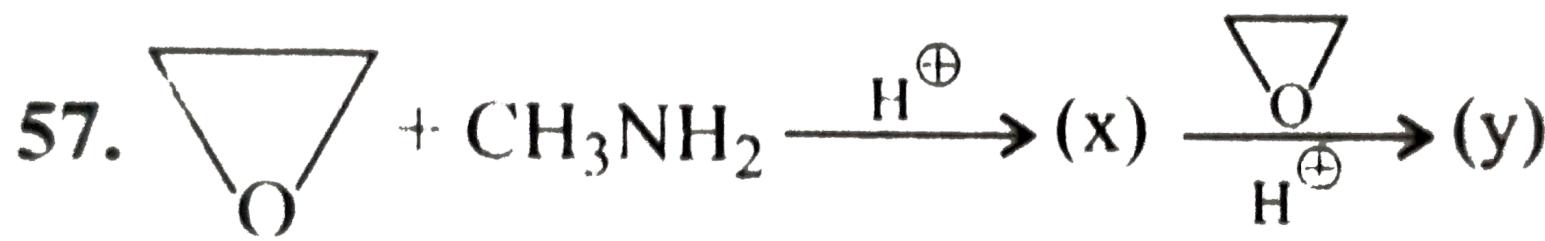
(D) All

CORRECT ANSWER: C

SOLUTION:

NA

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The products (x) and (y) are:

(A)

$$\begin{aligned} x &= HOCH_2 - CH_2 \\ &- NH - CH_3 \end{aligned}$$

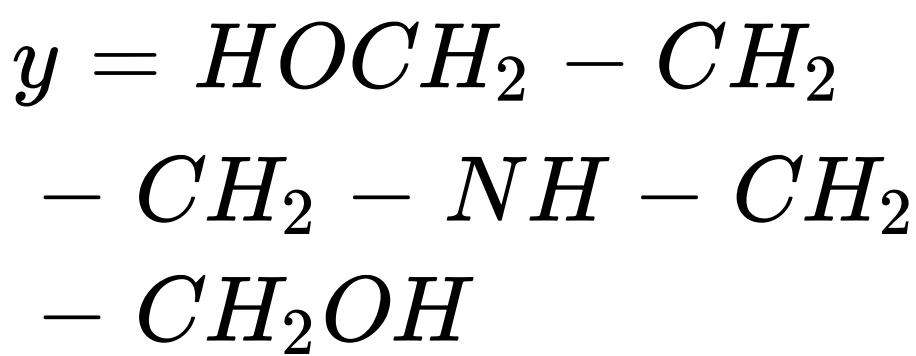
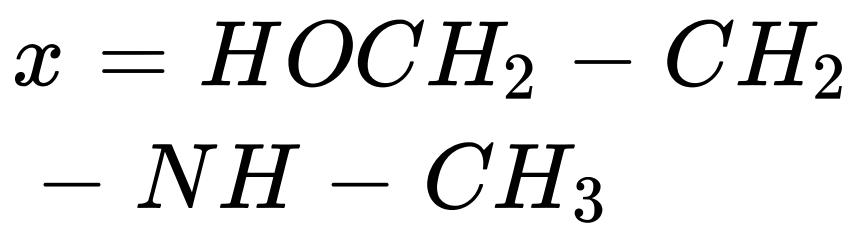
$$\begin{aligned} y &= HOH_2C - CH_2 \\ &- N - CH_2CH_2OH \\ &\quad | \\ &\quad CH_3 \end{aligned}$$

(B)

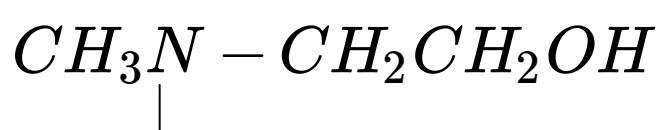
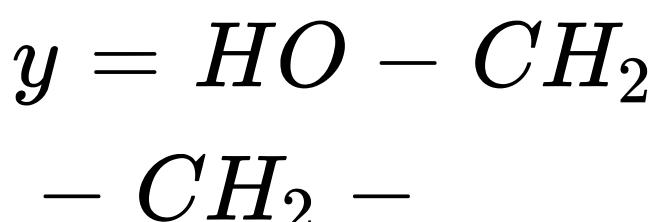
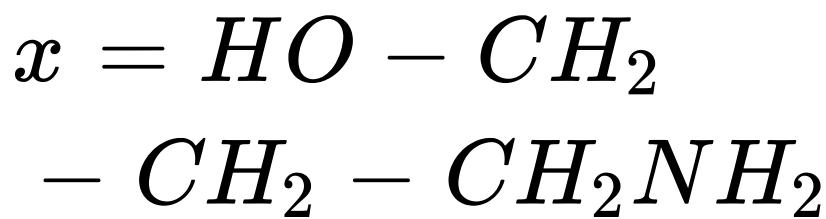
$$\begin{aligned} x &= HOCH_2 \\ &- CH_2CH_2 - NH_2 \end{aligned}$$

$$\begin{aligned} y &= HOH_2C - CH_2 \\ &- CH_2 - NH - CH_2 \\ &- CH_2OH \end{aligned}$$

(C)



(D)



CORRECT ANSWER: A

SOLUTION:

NA

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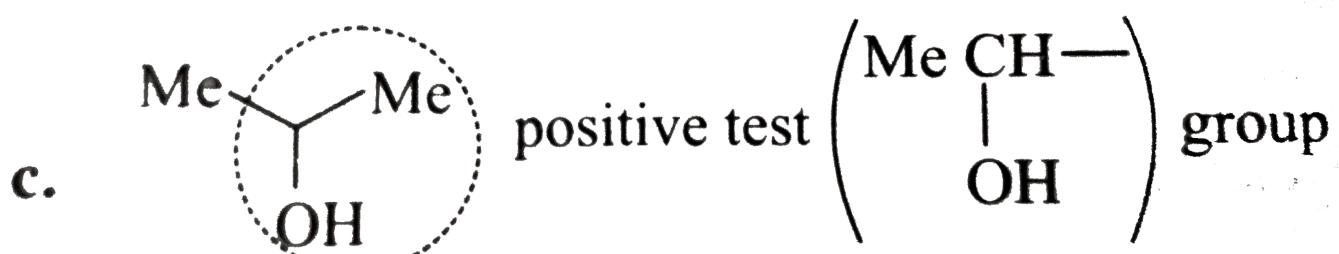
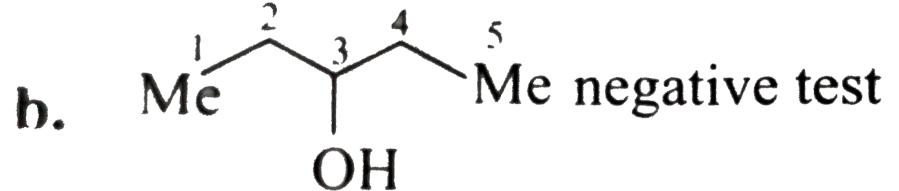
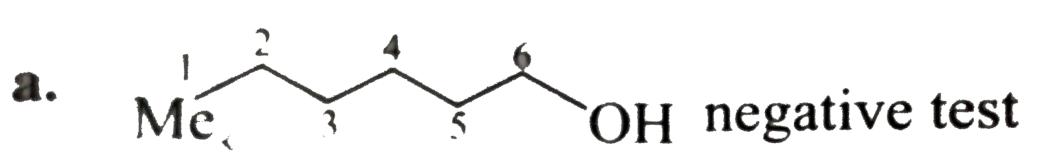
Which of the following alcohols is expected to give haloform test ?

- (A) 1-Pentanol
- (B) 3-Pentanol
- (C) 2-Propanol
- (D) None of above

CORRECT ANSWER: C

SOLUTION:

Alcohols having $\left(CH_3 - \underset{|}{CH} - OH \right)$ group give Iodoform test.



a.

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Q-53 - 11485534

An organic compound (A) with molecular formula C_7H_8O dissolves in NaOH and gives characteristic colour with $FeCl_3$. On treatment with Br_3 , it gives a tribromo product $C_7H_5Br_3$. The compound is:

(A) p-Hydroxybenzene

(B) 2-Methoxy-2-phenyl propane

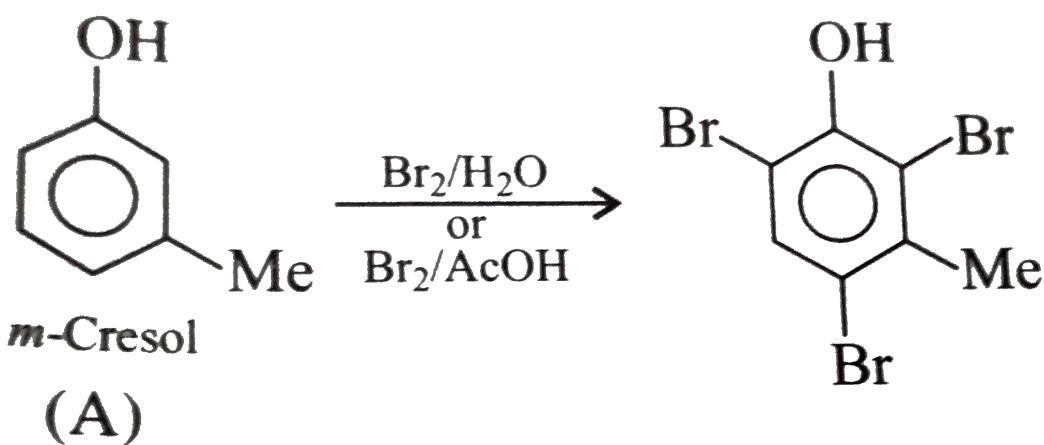
(C) m-Cresol

(D) p-Cresol

CORRECT ANSWER: C

SOLUTION:

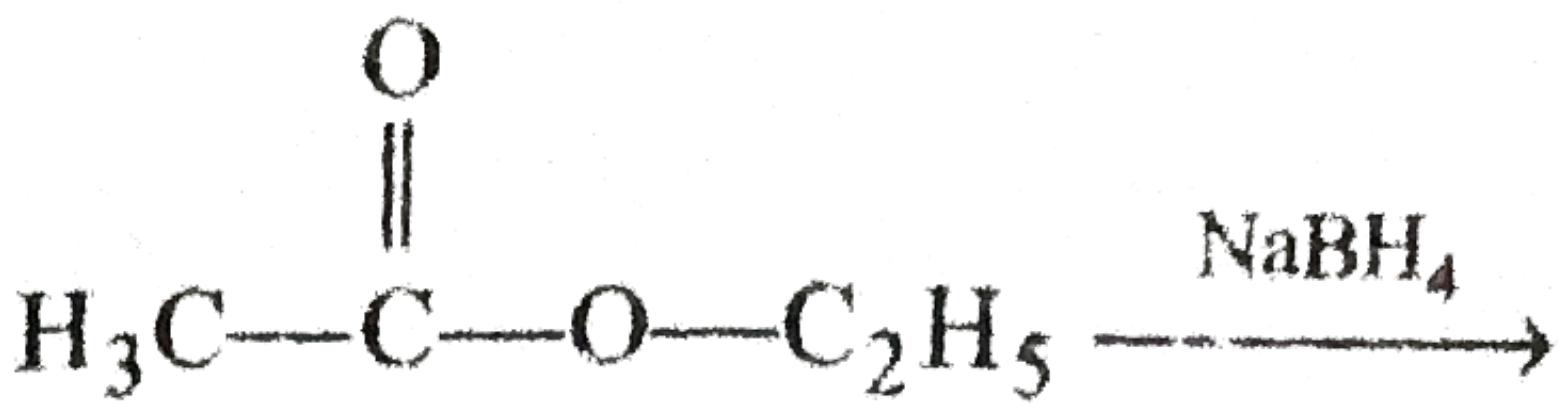
Four DU in A and ($C:H \approx 1:1$) suggest benzene ring with one extra C atom. Reactivity with NaOH and $FeCl_3$ suggests (A) to be a phenol. The formation of a tribrommo product suggest that o- and p-positions are vacantg. So methyl group should be present at m-position. Hence, (A) is m-cresol.



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Q-54 - 20884986

Predict product of the following reaction,



(A) $\text{CH}_3 - \text{CH}_2 - \text{OH}$

(B) No reaction

(C) $\text{H}_3\text{C} - \overset{\text{O}}{\underset{\parallel}{\text{C}}} - \text{OH}$

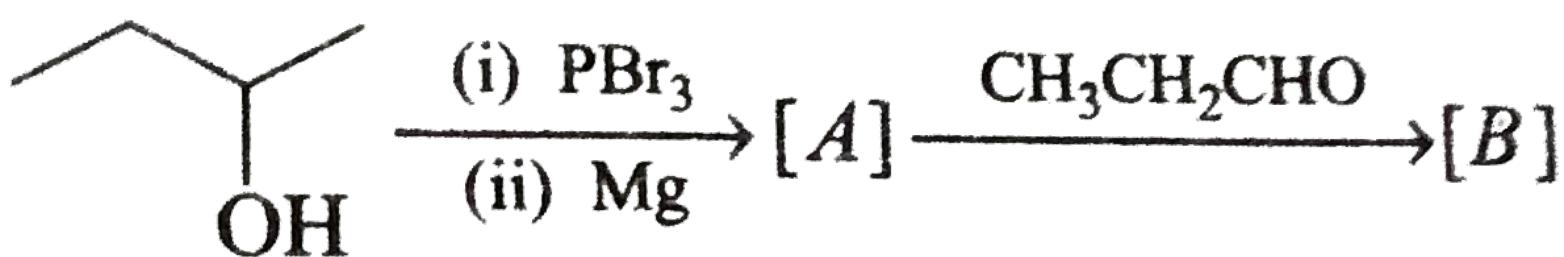
(D) $\text{H}_2\text{C} = \text{CH}_2$

CORRECT ANSWER: B

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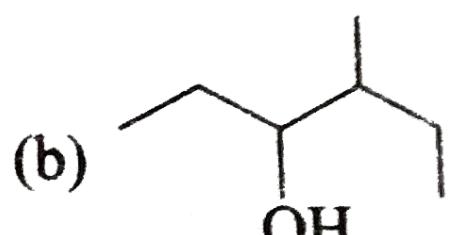
Q-55 - 20884999

The correct structure for compound B will be:

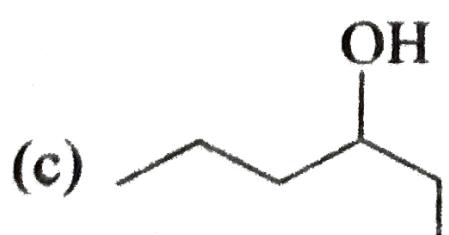




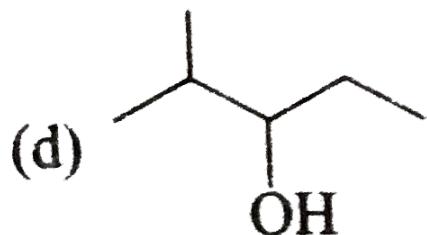
(A)



(B)



(C)

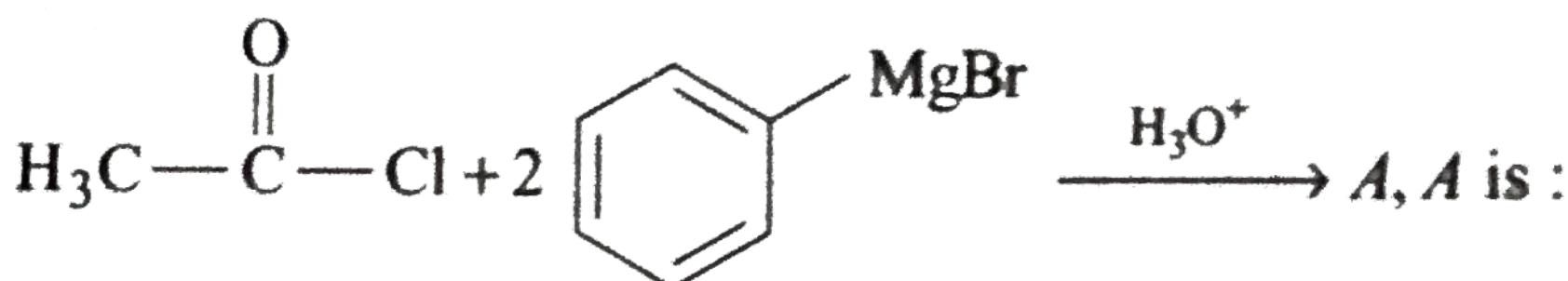


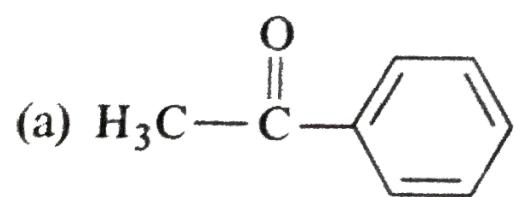
(D)

CORRECT ANSWER: B

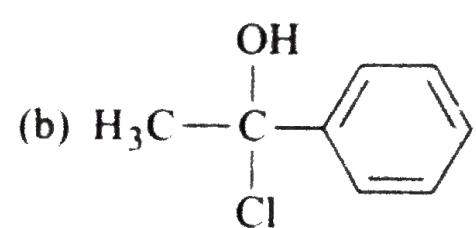
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Q-56 - 20885005

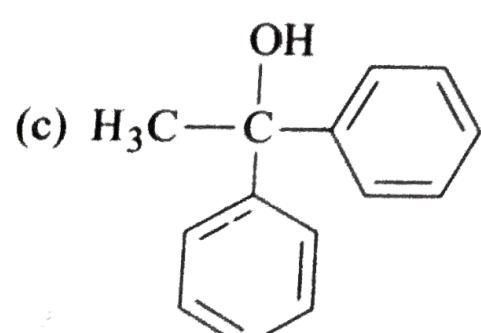




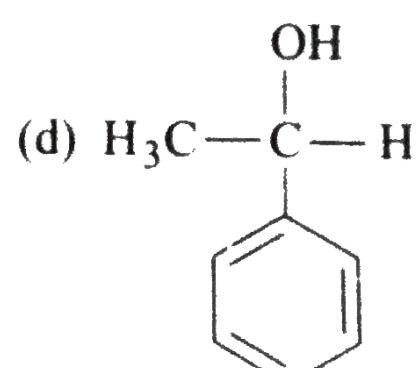
(A)



(B)



(C)

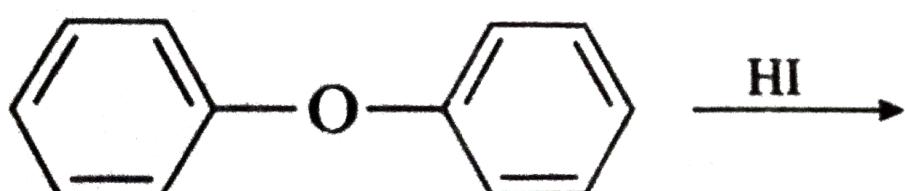


(D)

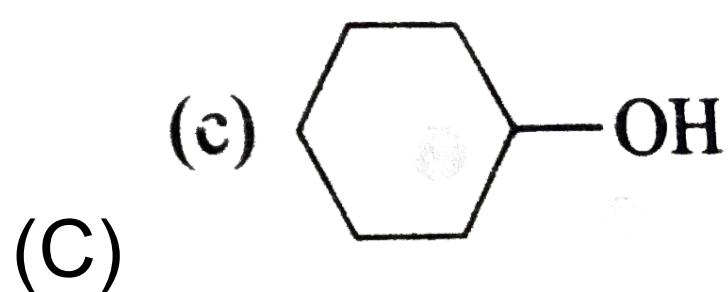
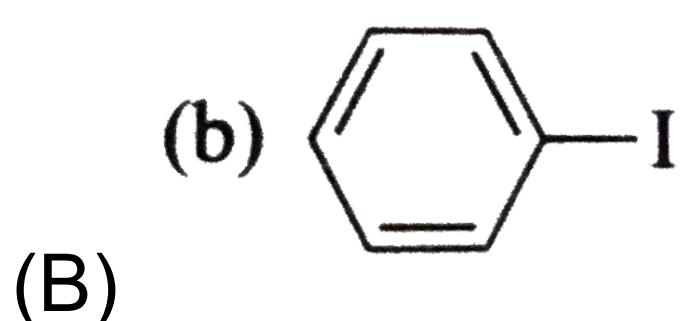
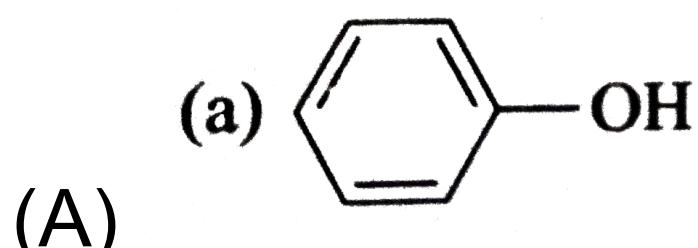
CORRECT ANSWER: C

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Q-57 - 20885012



, Predict the correct option :

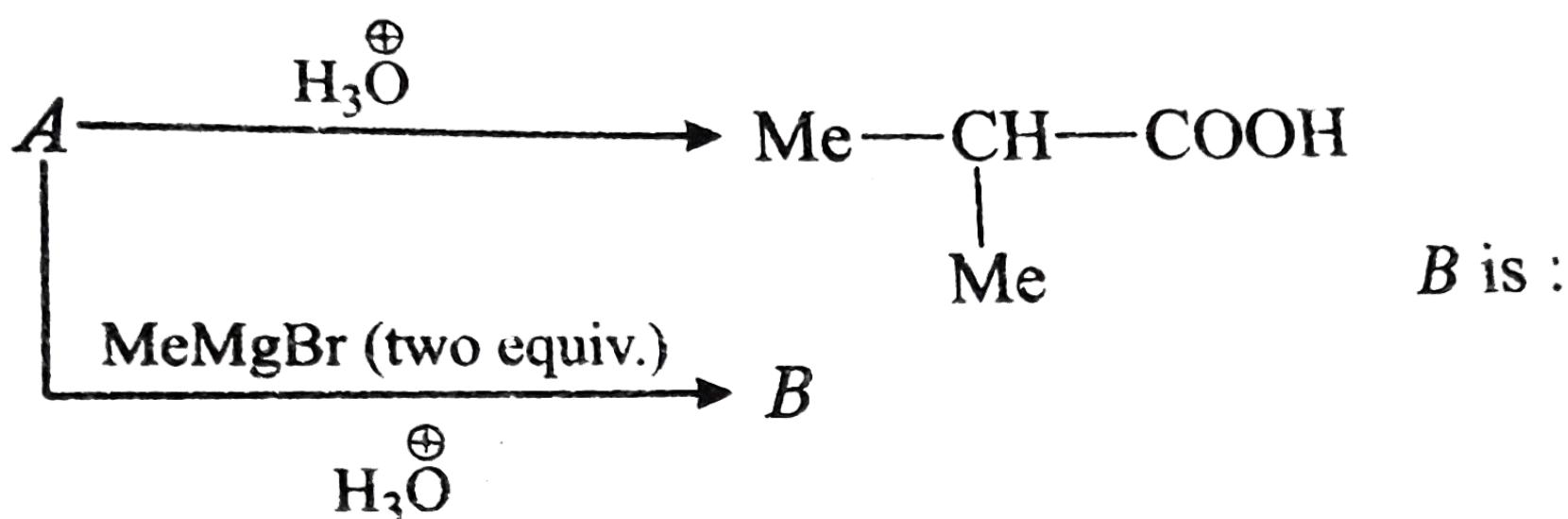


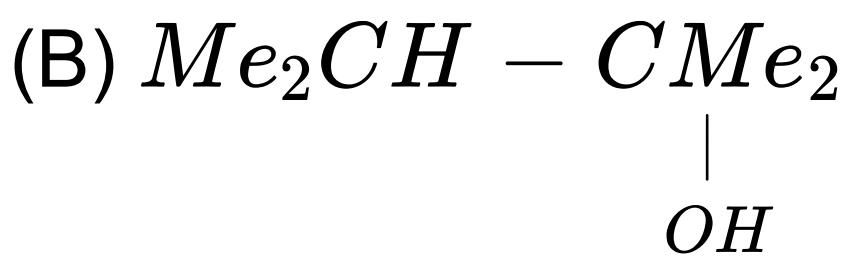
(D) No reaction

CORRECT ANSWER: D

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Q-58 - 20885026

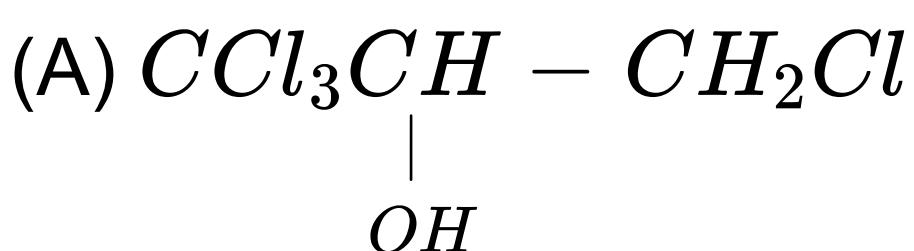
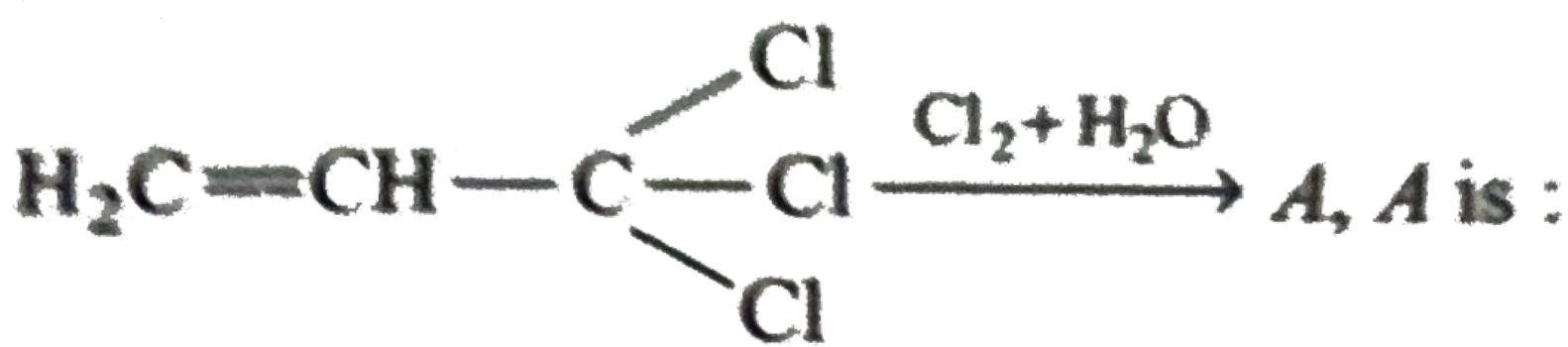


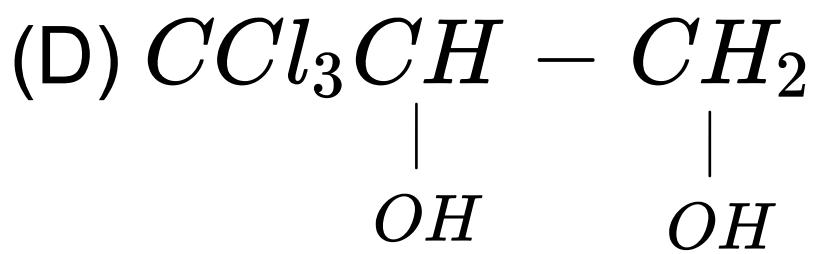
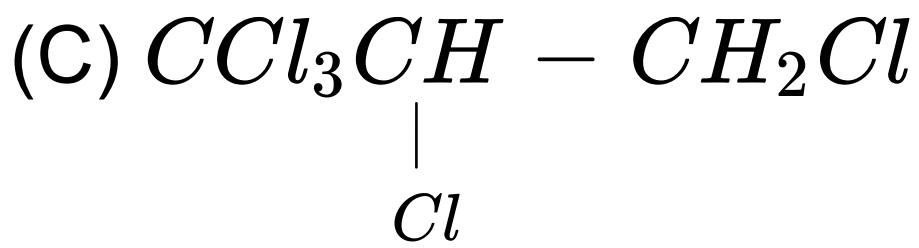
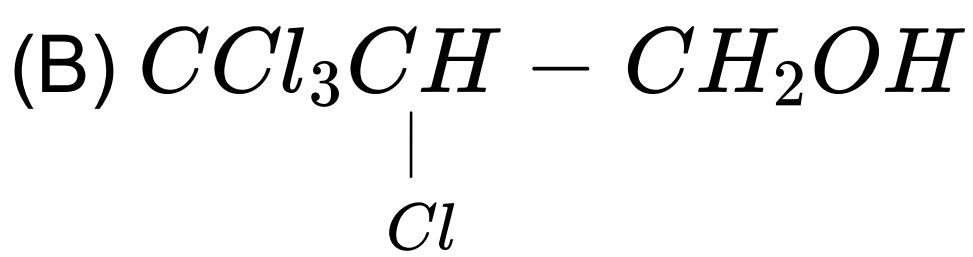


CORRECT ANSWER: B

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Q-59 - 20885029



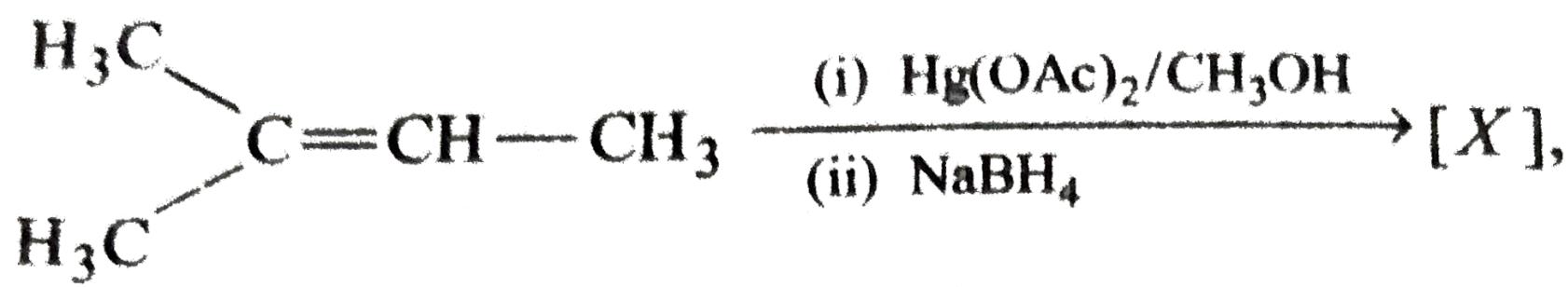


CORRECT ANSWER: B

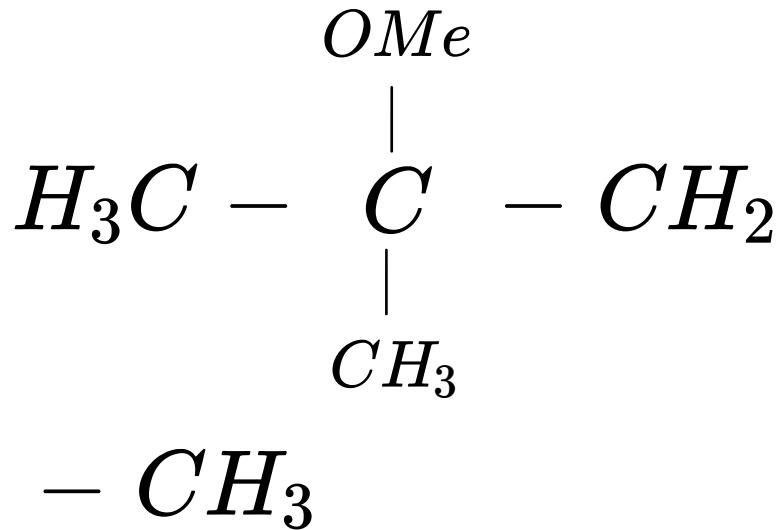
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Q-60 - 20885038

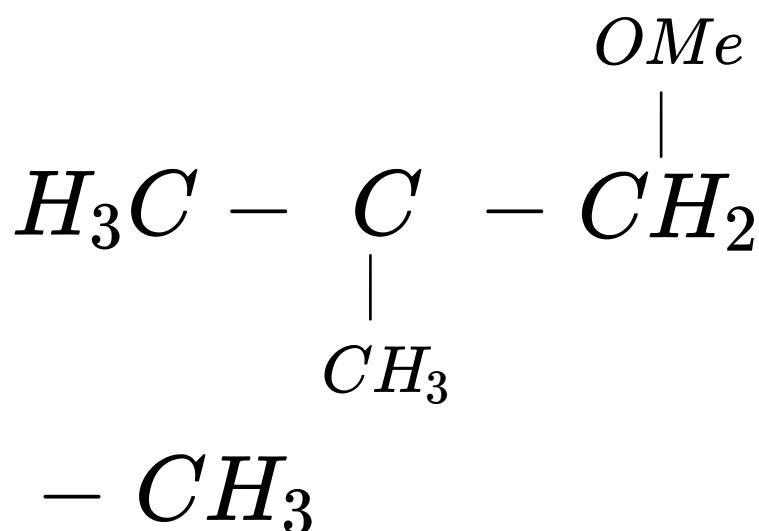
In the given reaction



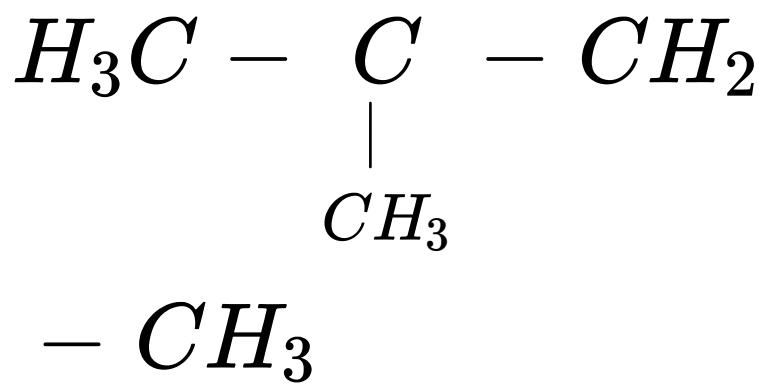
(A)



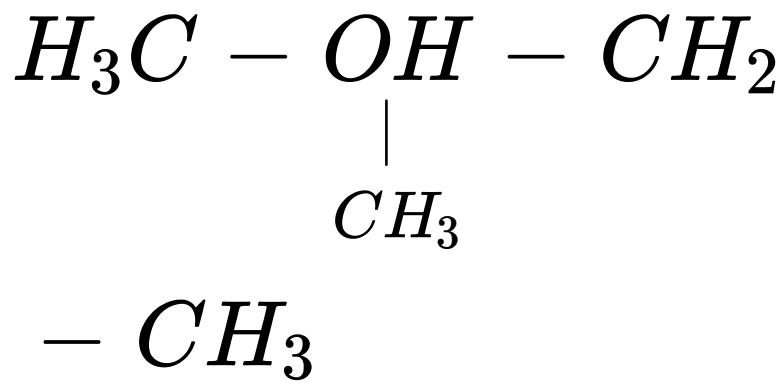
(B)



(C)



(D)



CORRECT ANSWER: A

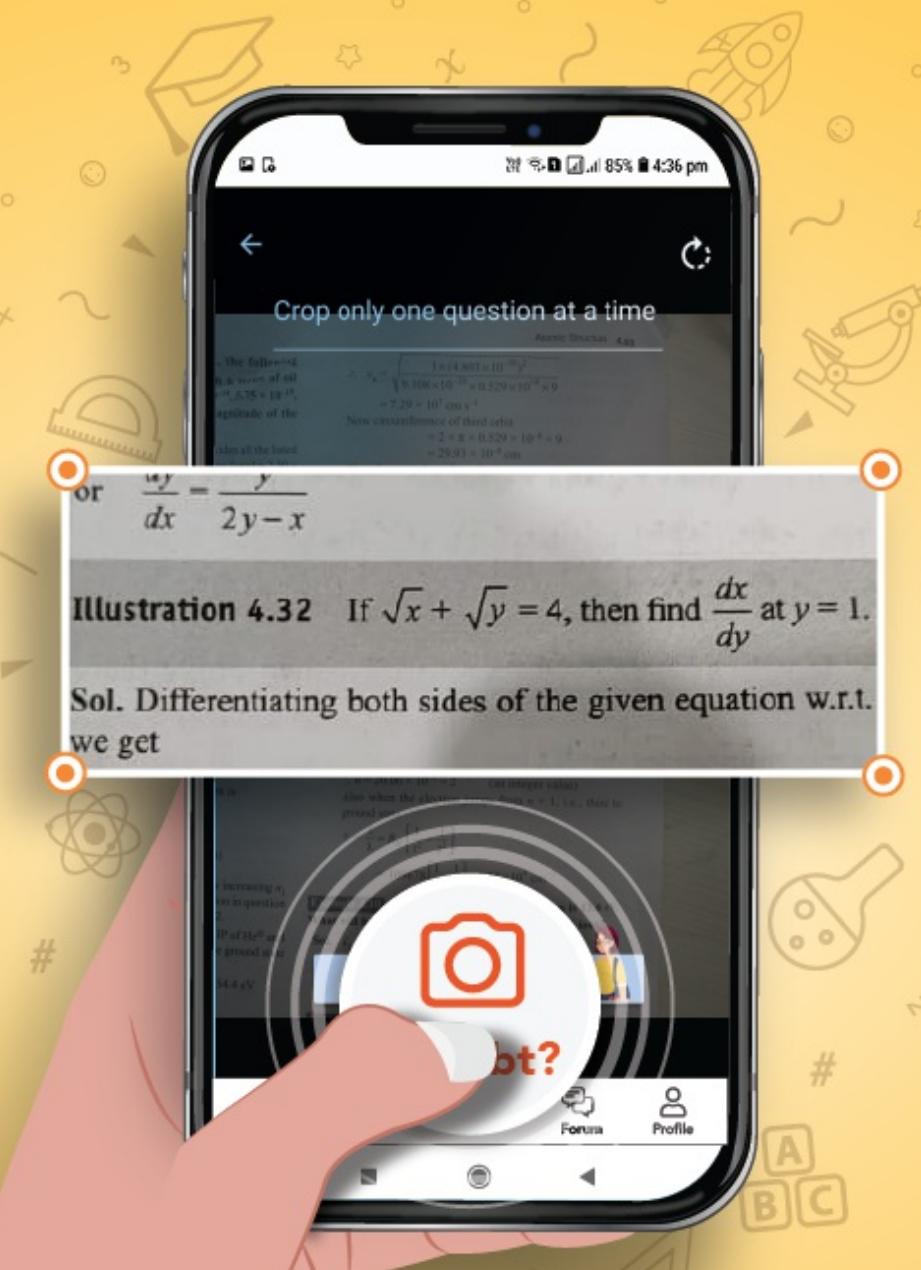
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