

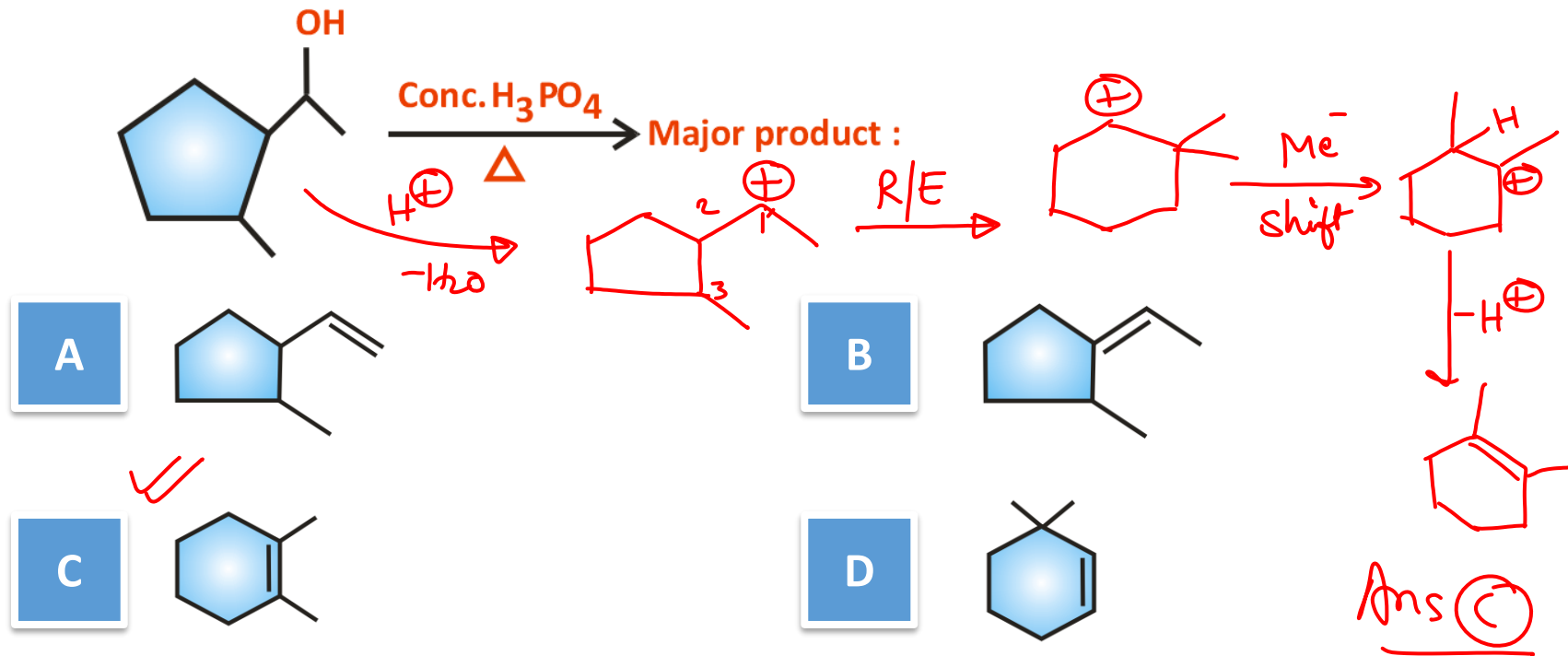
200 MOST IMP ORGANIC QUESTIONS

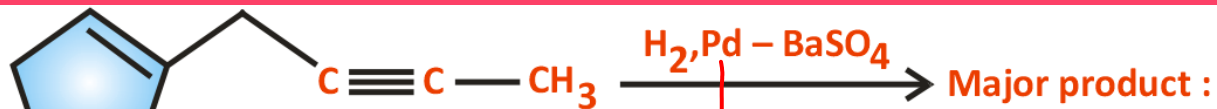
JEE 2023

PART 2

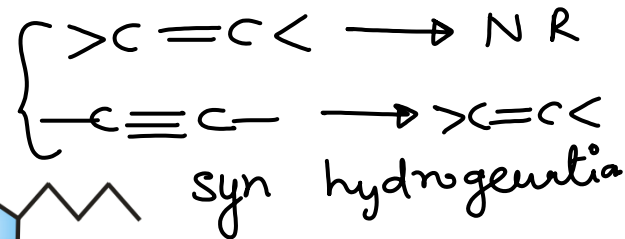
Ashwani Tyagi



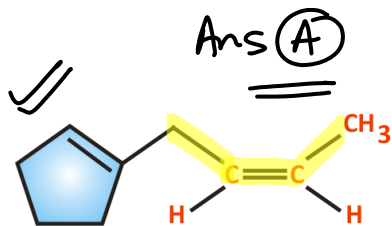




Lindlar's catalyst



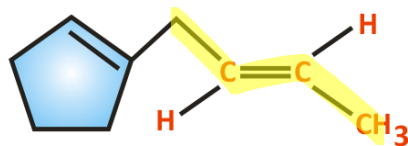
A



B



C



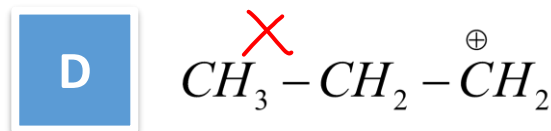
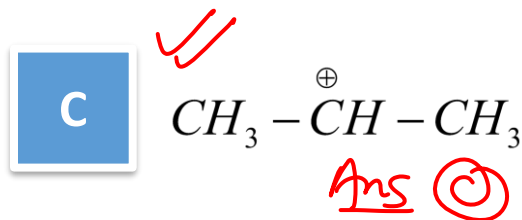
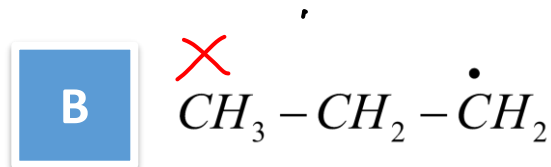
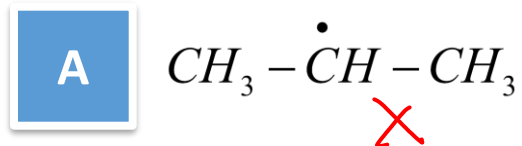
D

None of these

Ans. : A



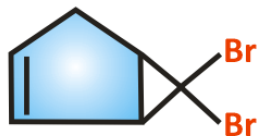
the intermediate of reaction is:



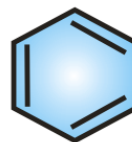
Ans. : C



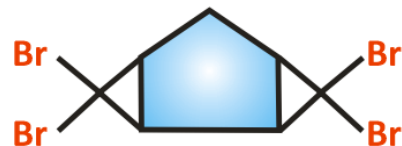
A



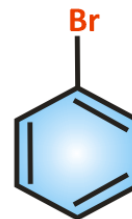
B



C

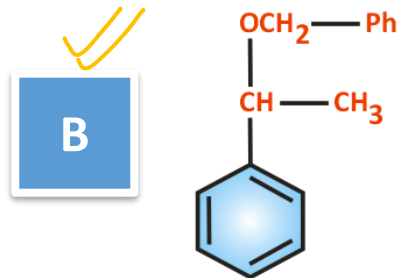
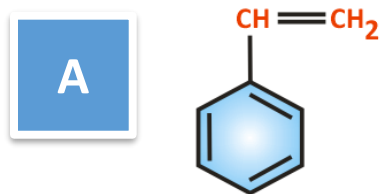
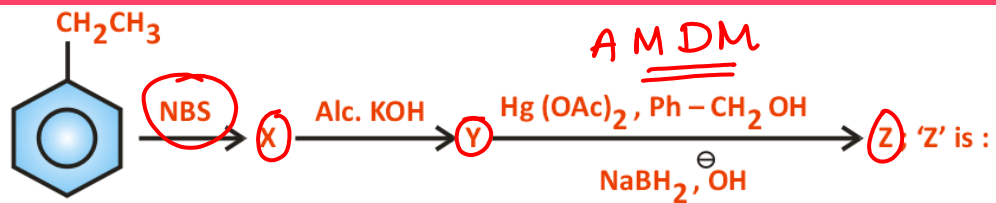


D

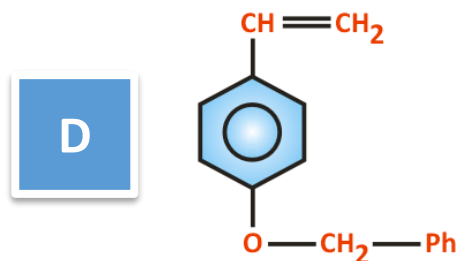
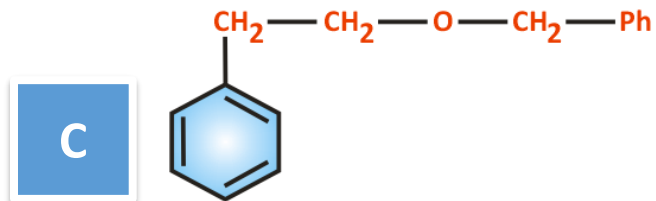


Ans. : D



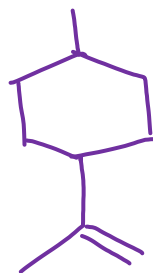
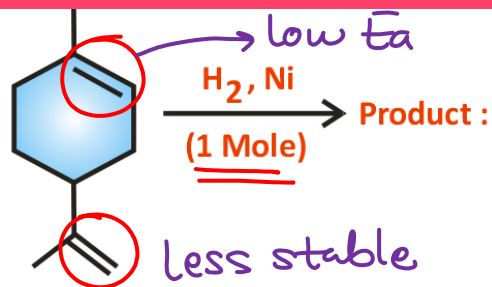


Ans - B

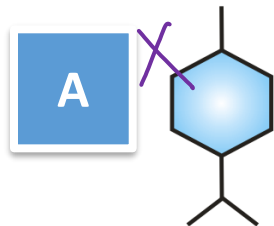


Question-42

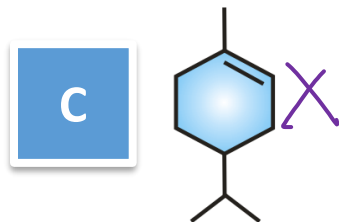
Best 200 Organic Questions



More substituted gets
preference
(Chemisorption)

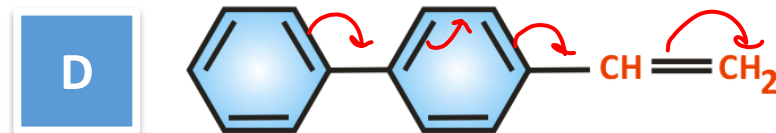
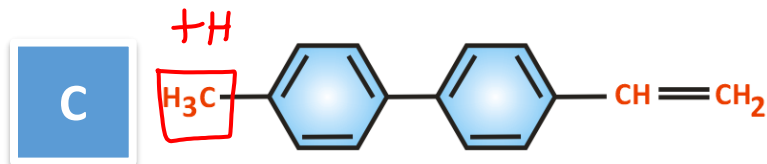
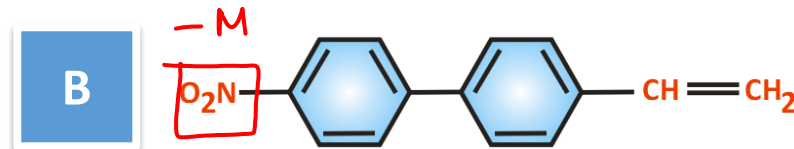
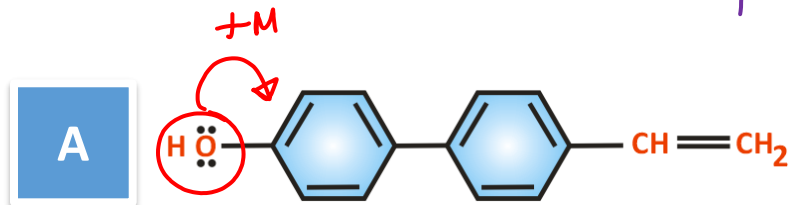


Best
Ans



No reaction

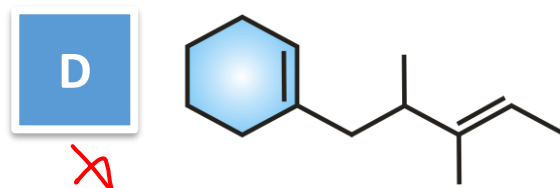
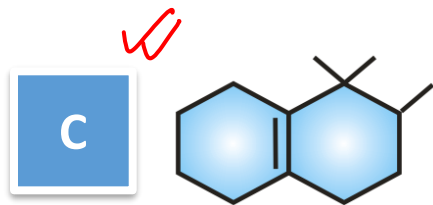
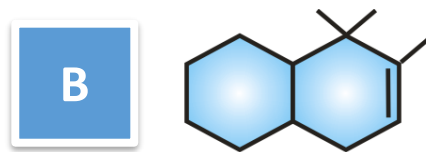
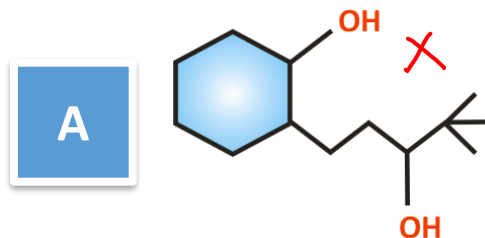
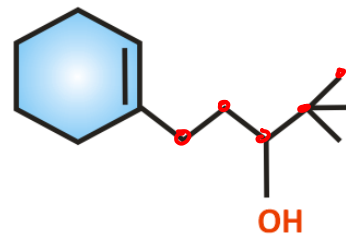
Fastest rate of electrophilic addition takes place in :



Ans \rightarrow A

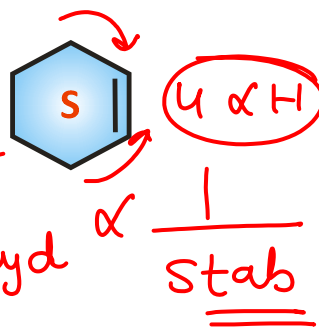
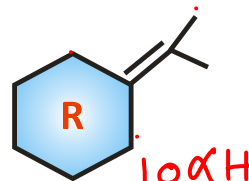
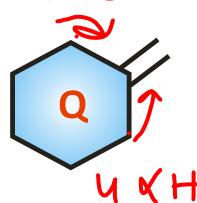
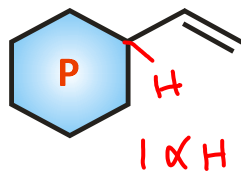
Ans. : A

Which of the following will be the correct product of reaction?



Ans. : C

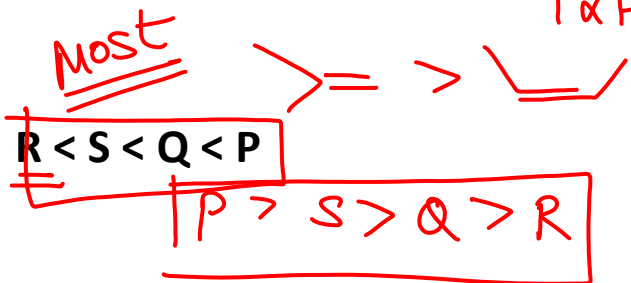
Arrange the following alkenes in increasing order of their enthalpy of hydrogenation ($-\Delta H$):



$\Delta H_{\text{hyd}} \propto$

stab

A



B

$R < S < P < Q$

C

$P < Q < R < S$

D

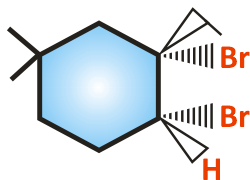
$P < Q < S < R$

Ans. : A

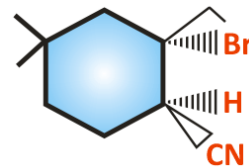
Give the major product of the following reaction



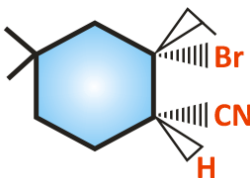
A



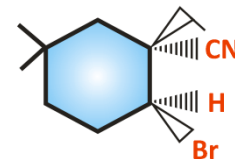
B



C

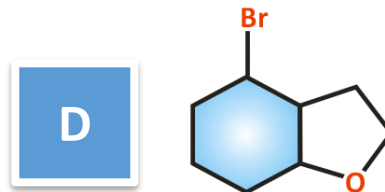
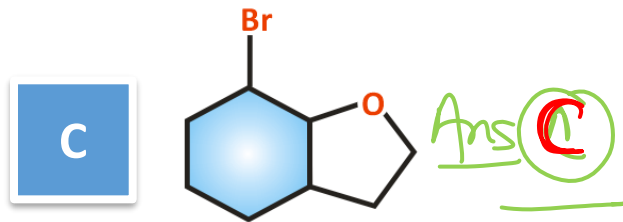
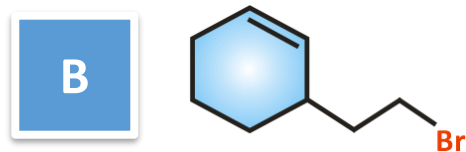
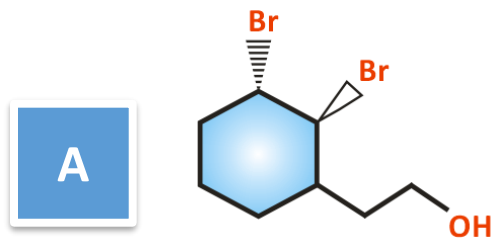
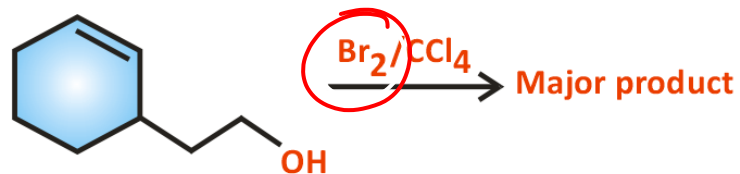


D



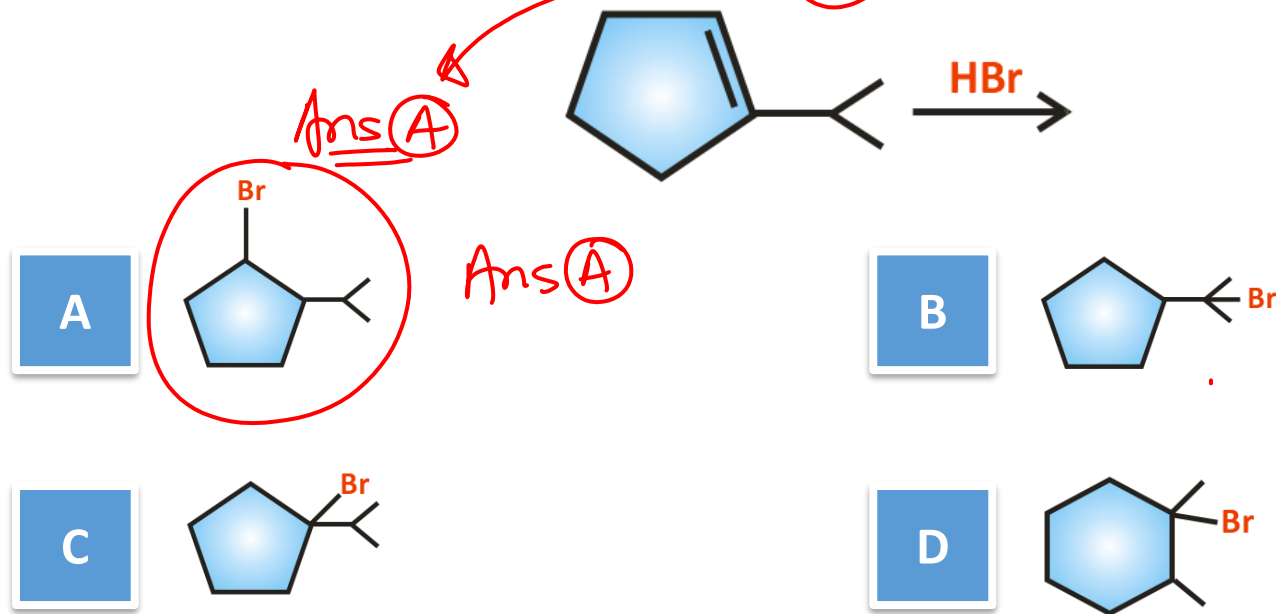
Ans. : D

Give the major product of following reaction

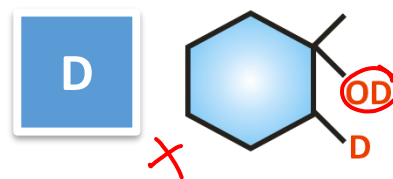
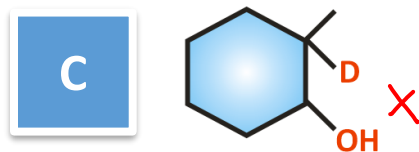
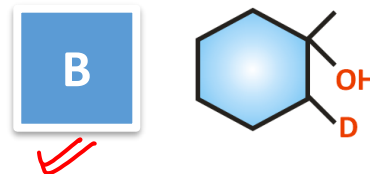
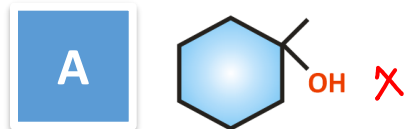


Ans. : C

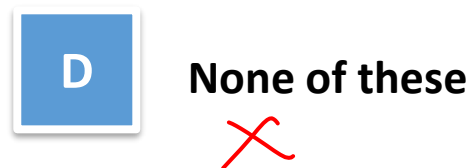
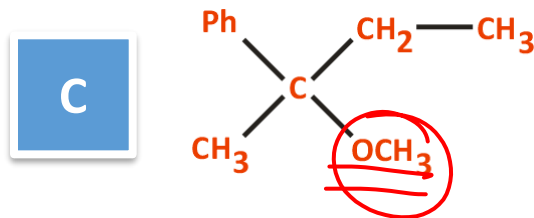
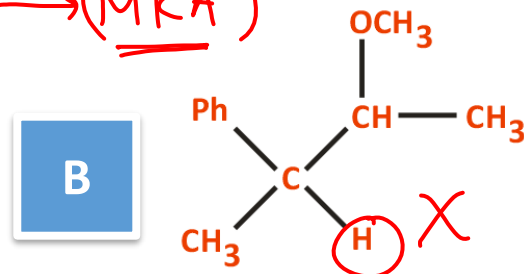
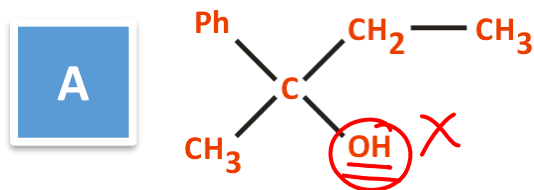
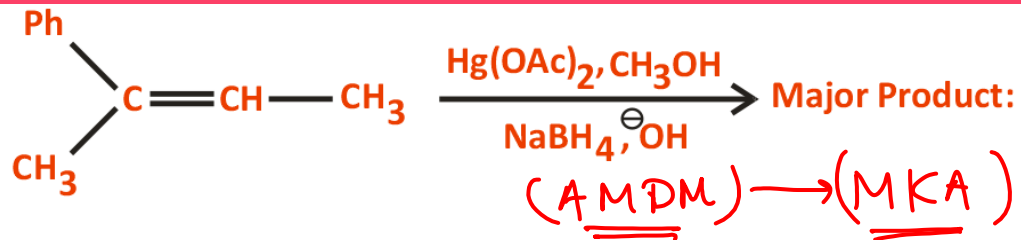
Which of the following products is not formed in following reaction?



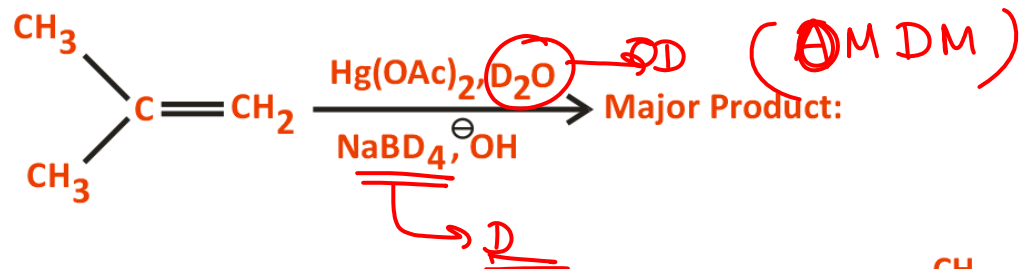
Ans. : A



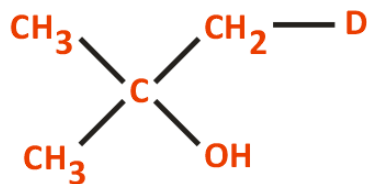
Ans: B



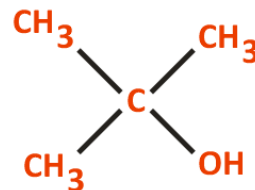
Ans. : C



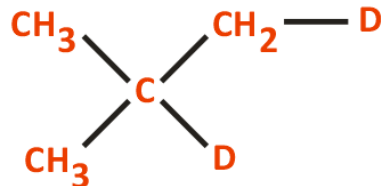
A



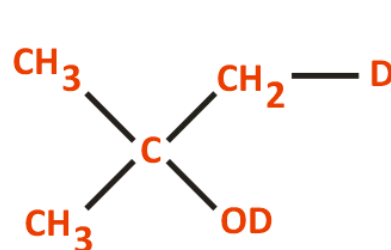
B



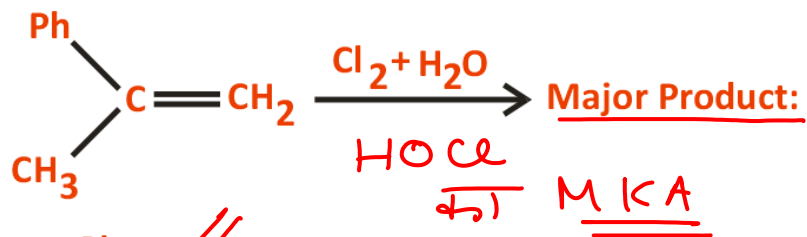
C



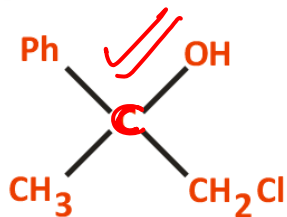
D



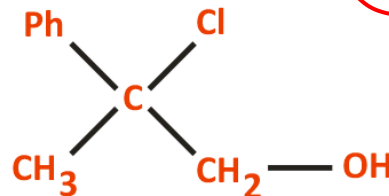
Ans: D



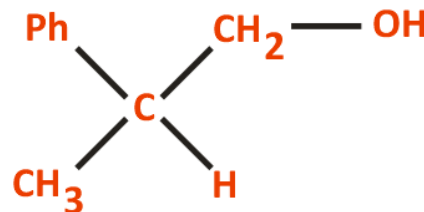
A



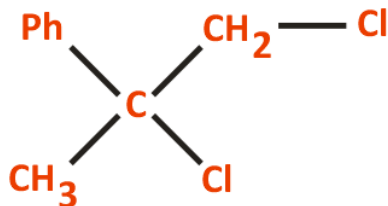
B



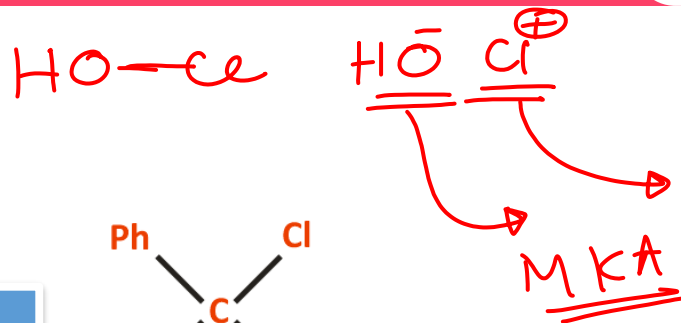
D

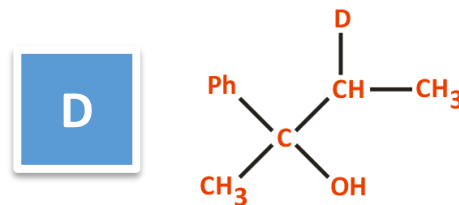
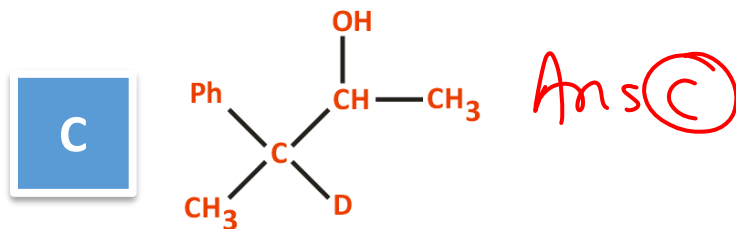
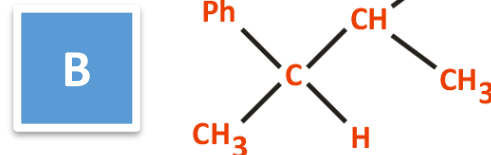
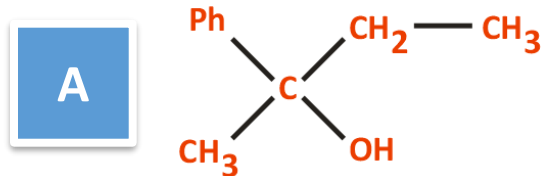
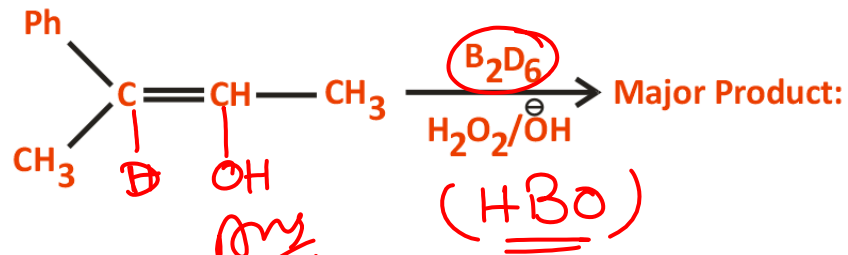


C



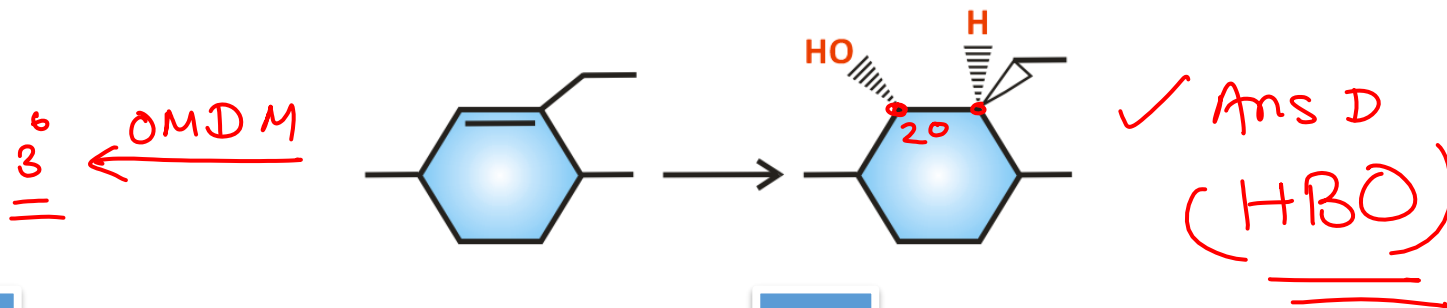
Ans. : A



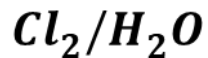


Ans. : C (circled in red)

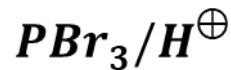
Which of the following reagents will bring about following transformations?



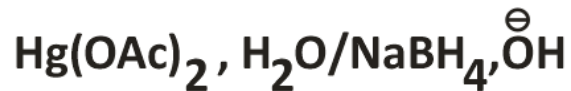
A



B



C

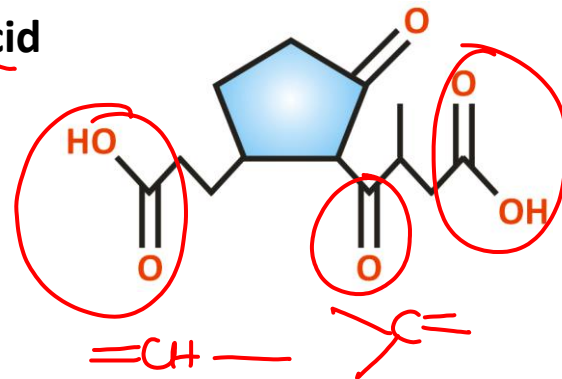
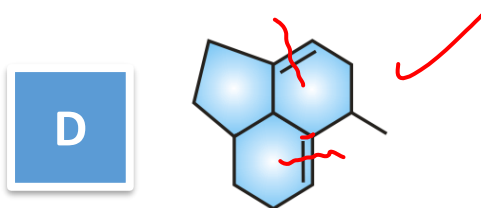
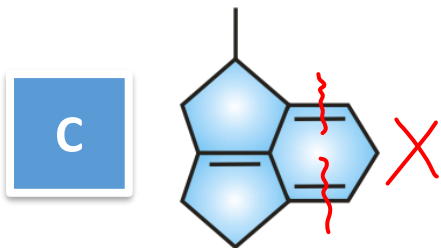
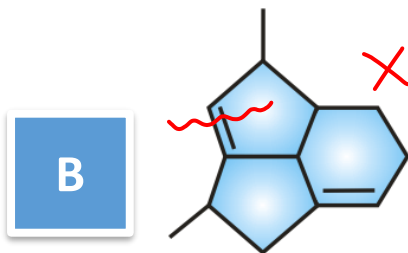
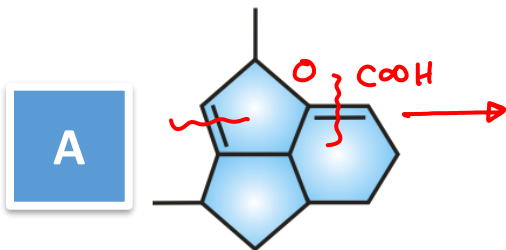


D



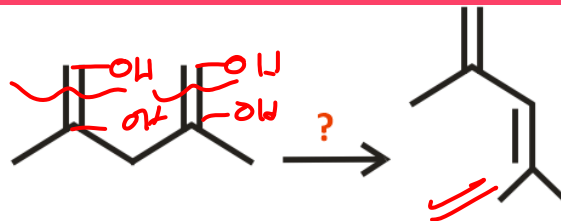
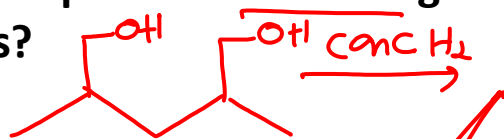
Ans. : D

Which molecule will give following dicarboxylic acid
upon treatment with acidic solution of KMnO_4 ?



Ans. : D

Which of the following reagents would best accomplish the following transformations?



A

Excess B_2H_6 ; $\text{NaOH}/\text{H}_2\text{O}_2$
followed by OsO_4

B

Excess $\text{Hg}(\text{OAc})_2 / \text{H}_2\text{O}; \text{NaBH}_4, \text{OH}^-$
followed by conc. $\text{H}_2\text{SO}_4, \Delta$

C

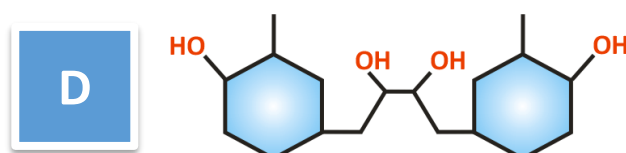
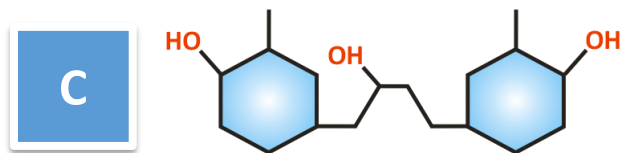
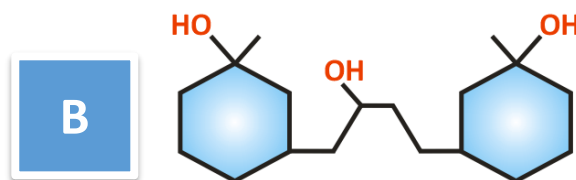
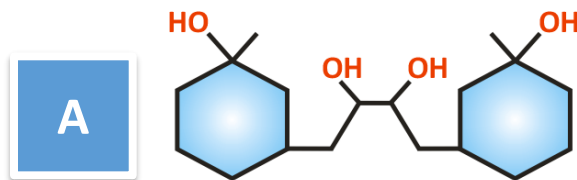
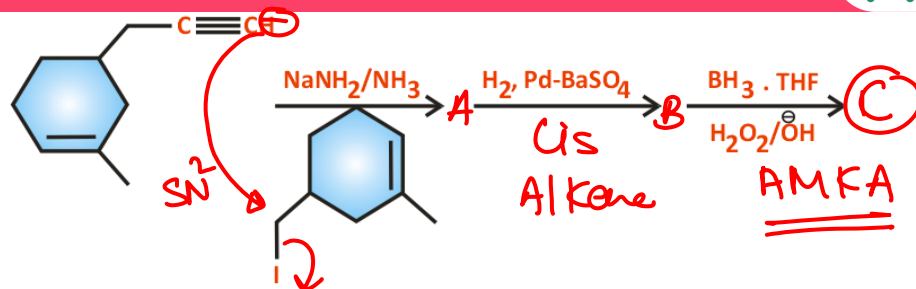
$\text{O}_3, \text{Zn}/\text{H}_2\text{O}$ followed by $\text{Hg}(\text{OAc})_2 / \text{H}_2\text{O}; \text{NaBH}_4, \text{OH}^-$

D

$\text{OsO}_4; \text{NaHSO}_3$ followed
by NaOH

Ans. : B

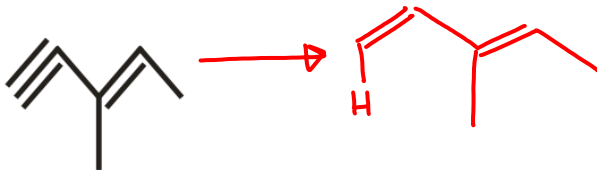
What is the product of the
following sequence of reaction?



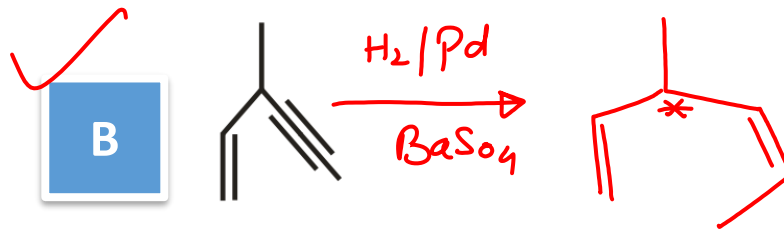
Ans. : C ✓ Ans C

Which would produce chiral molecule after treatment with Lindlar catalyst?

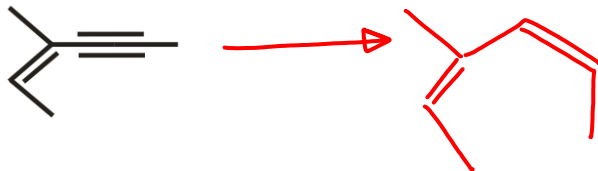
A



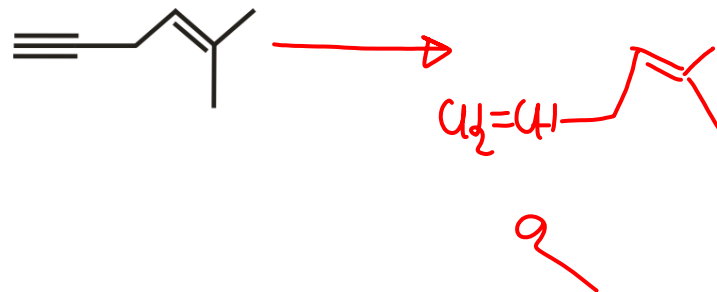
B



C

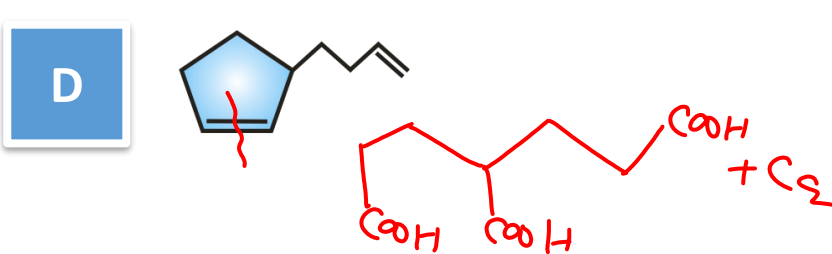
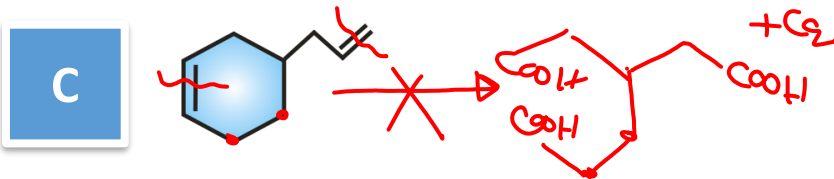
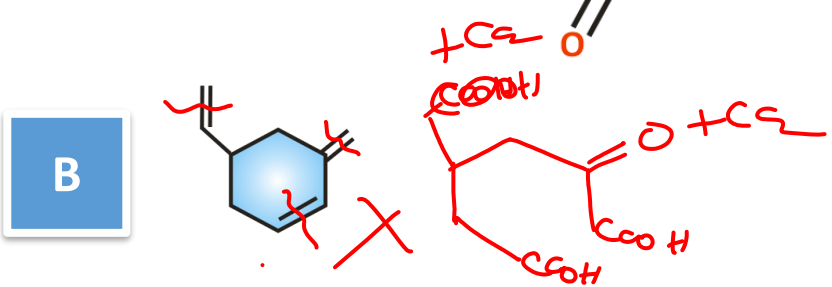
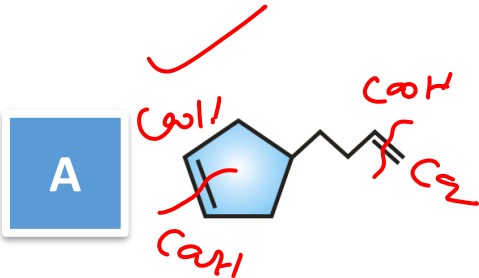
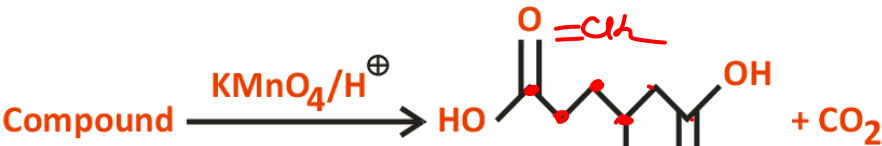


D



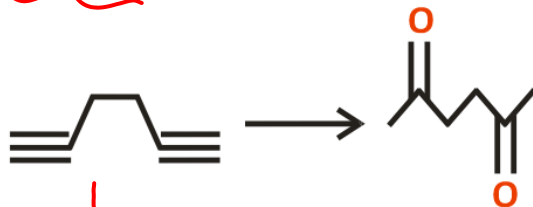
Ans. : B

Which of the following compounds was starting material for the oxidation shown below?



Ans. : A

How is the following transformation best carried out?



A

OsO_4 ; NaHSO_3

B

H_2SO_4 / H_2O

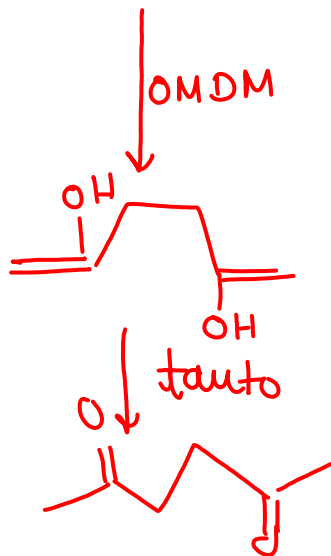
C

HgSO_4 / H_2SO_4

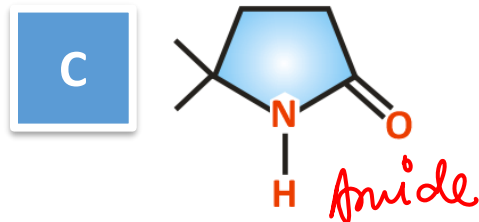
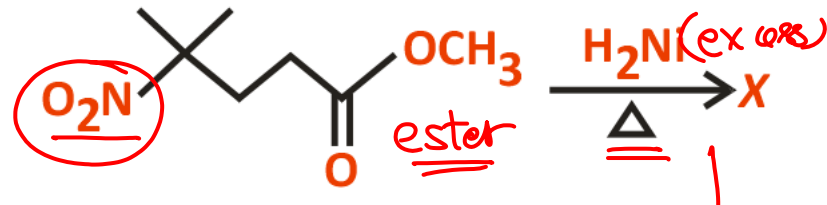
D

HIO_4

Ans. : C



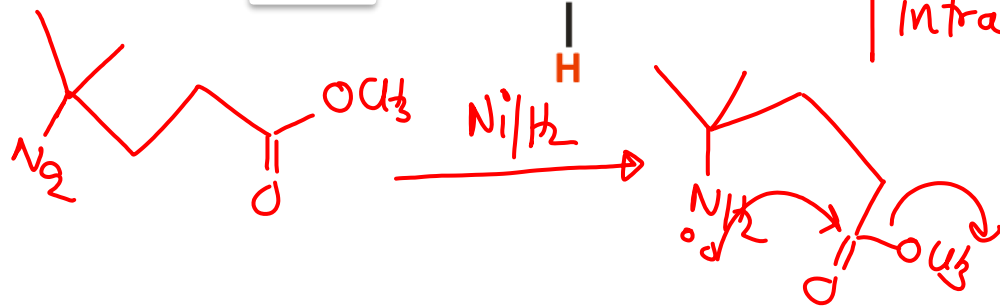
The major product (X) of the reaction is :



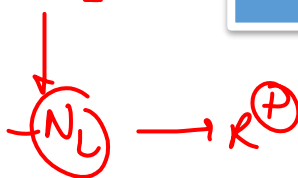
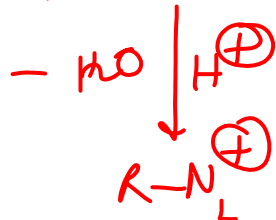
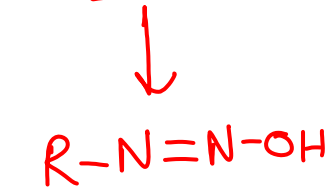
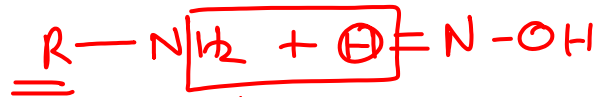
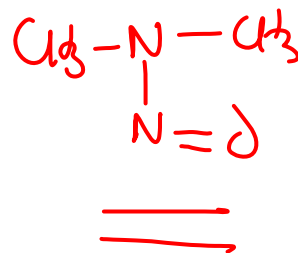
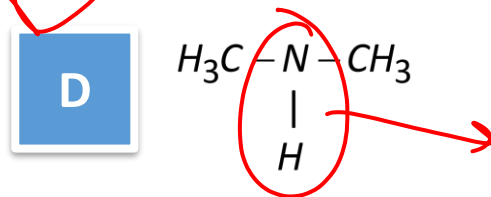
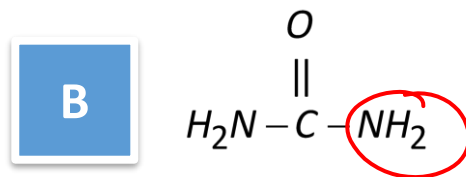
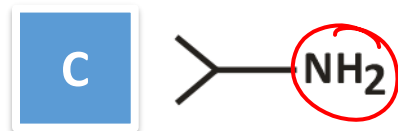
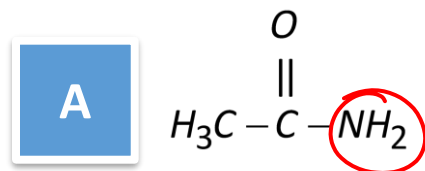
Ans. : C

$-\text{NO}_2 > -\text{COOR}$

Amide
(least reactive)

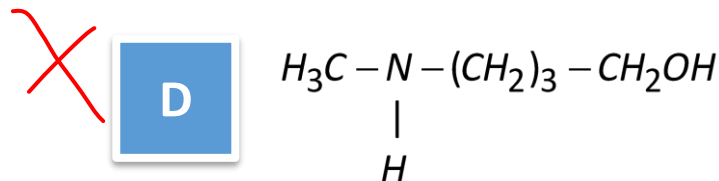
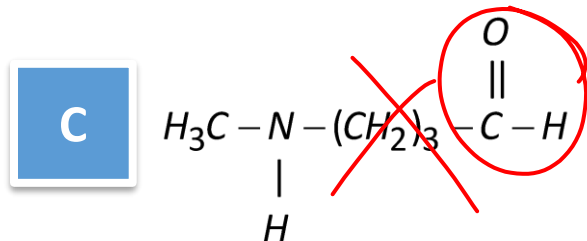
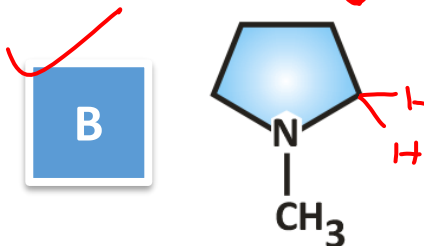
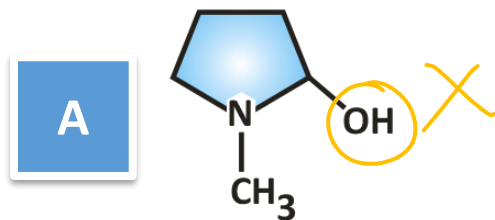
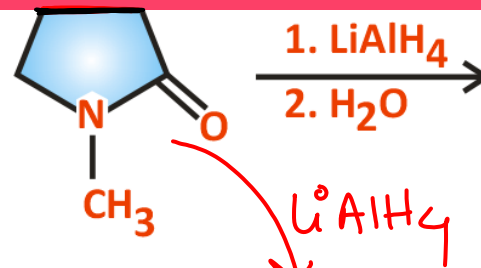


Which of the following compounds does not liberate N_2 on treatment with HNO_2 ?



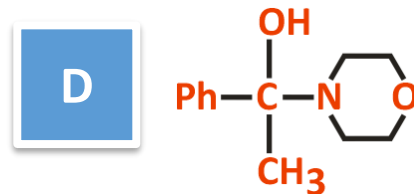
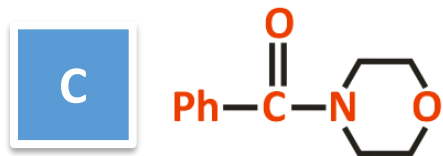
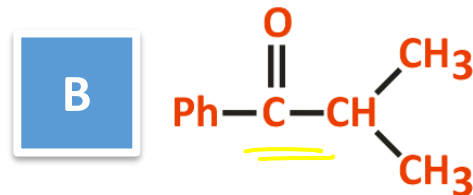
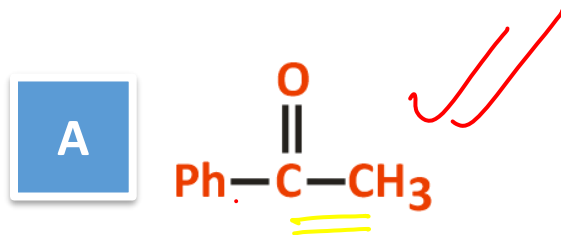
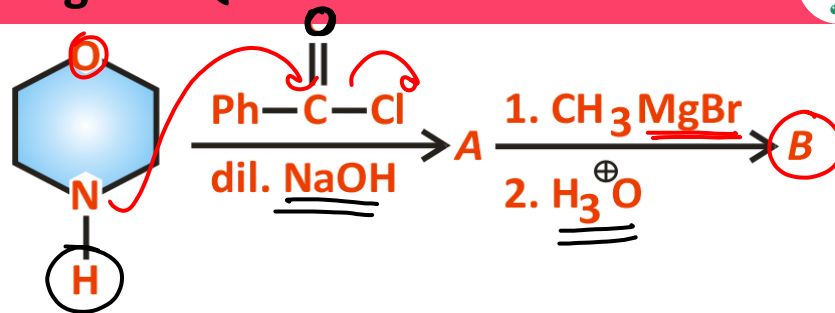
Ans. : D

The product formed in the reaction is:



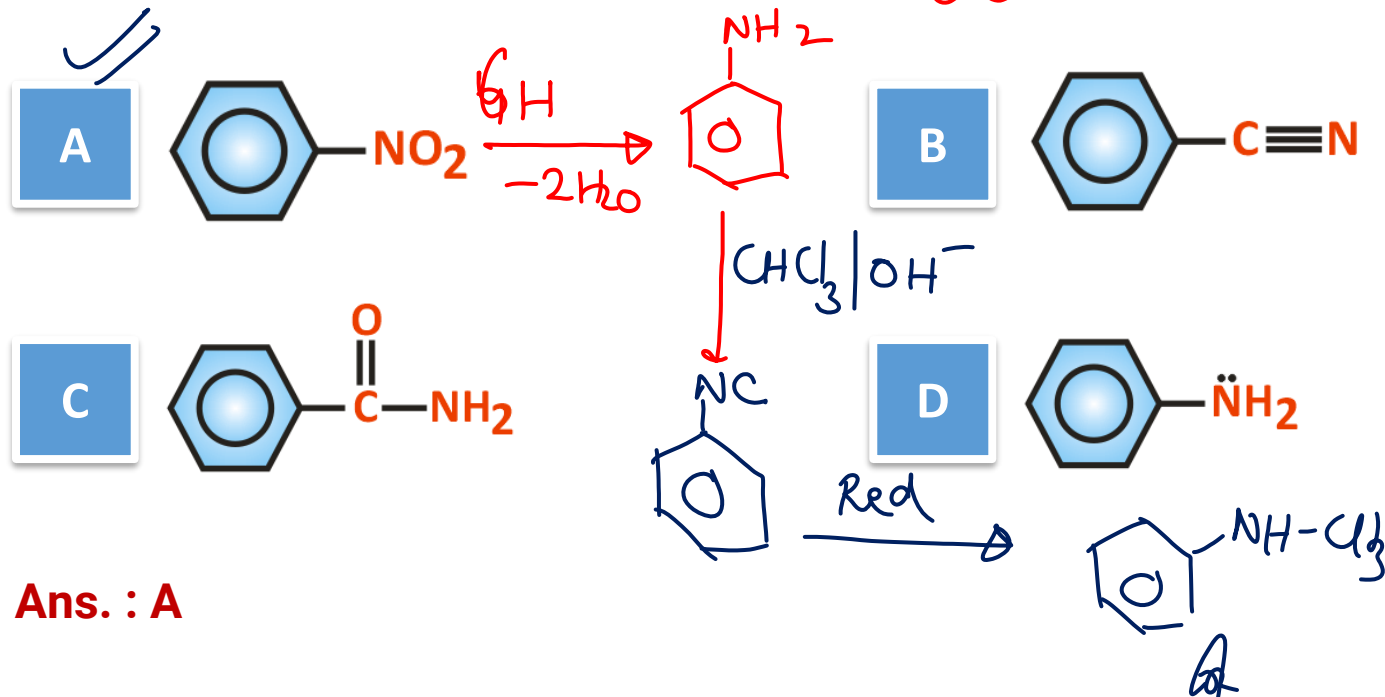
Ans. : B

The major product (B) formed in the reaction sequence is:



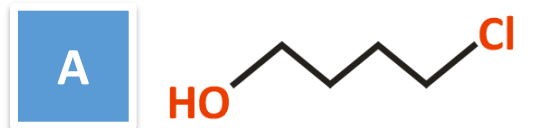
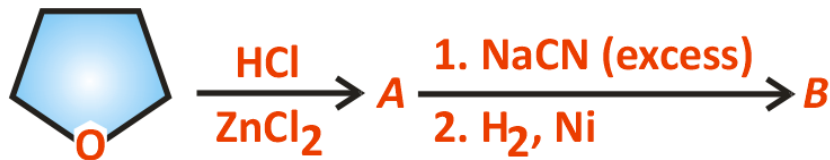
Ans. : A

An organic compound (A) on reduction gives a compound (B) which on reaction with CHCl_3 and NaOH form (C). The compound (C) on catalytic reduction gives N-methylaniline. The compound (A) is :



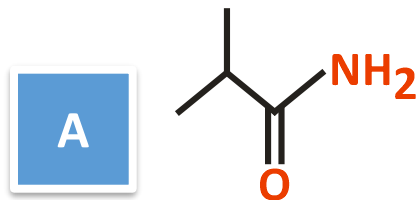
Ans. : A

The major end product (B) of the reaction:



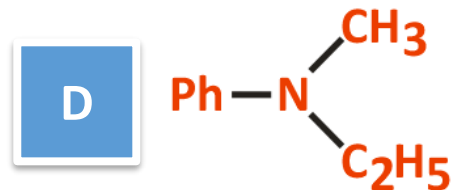
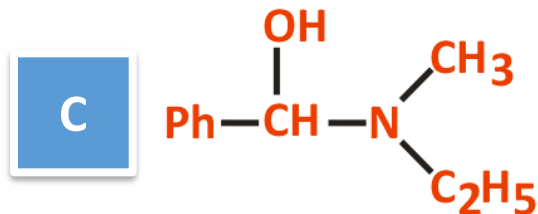
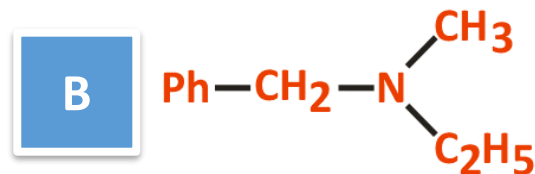
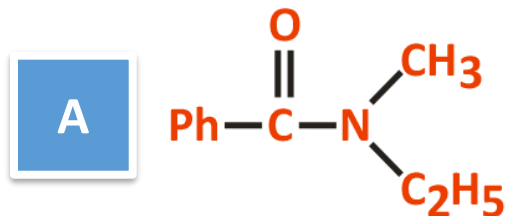
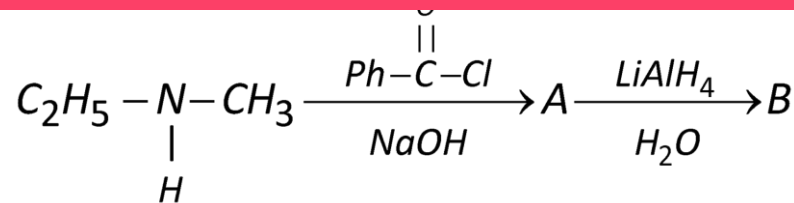
Ans. : C

Which one among the following is expected to form a secondary alcohol on treatment with HNO_2 ?

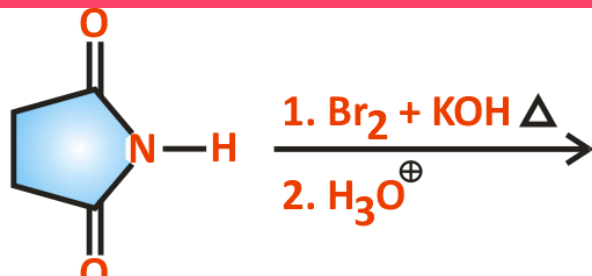


Ans. : C

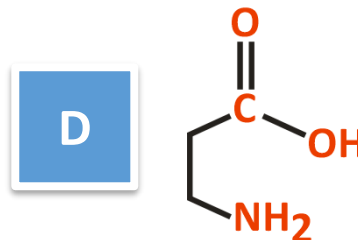
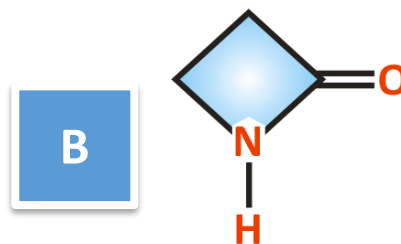
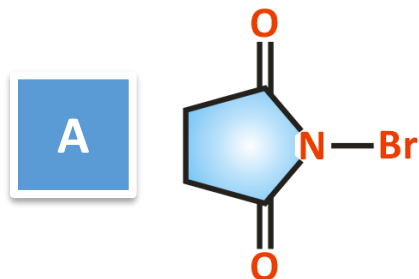
The end product (B) of the reaction sequence :



Ans. : B

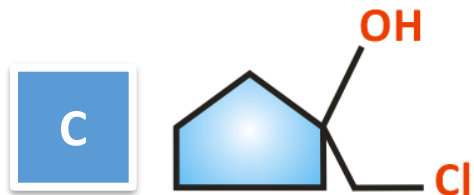
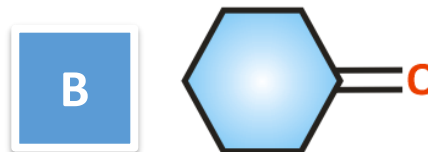
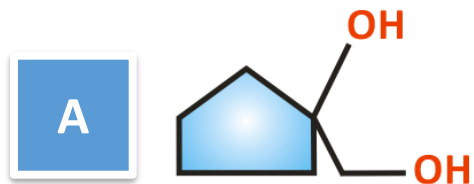
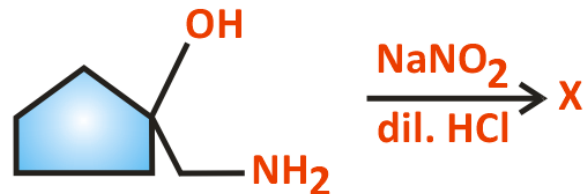


The product of above reaction is :



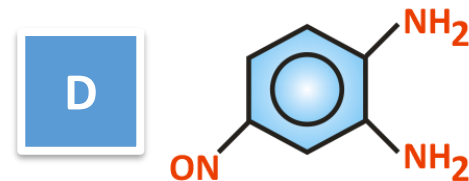
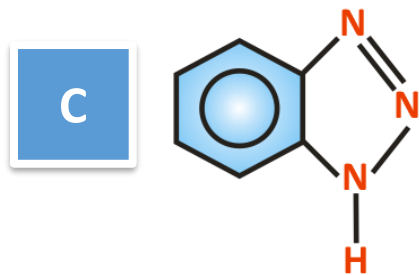
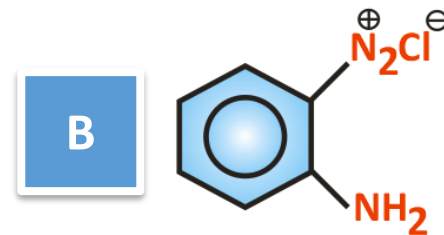
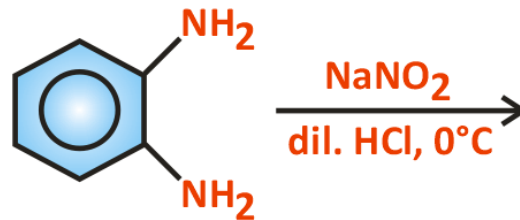
Ans. : D

The major product (X) of the reaction is :



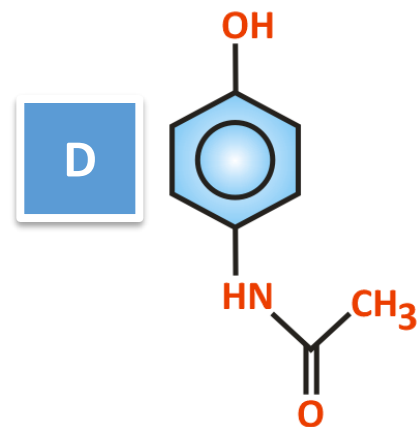
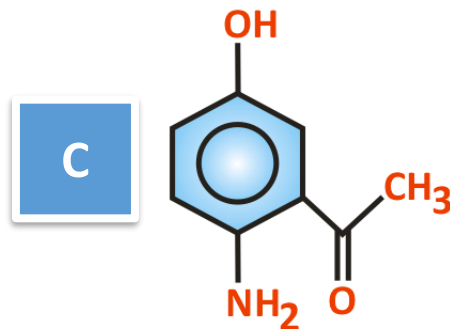
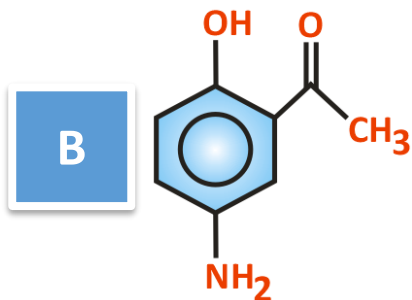
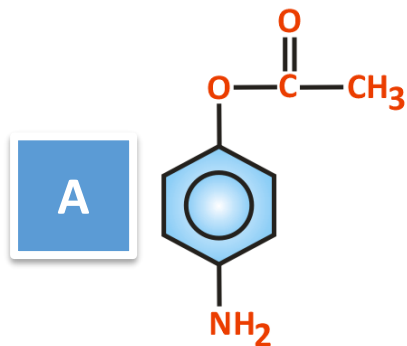
Ans. : B

The major product of the reaction is :



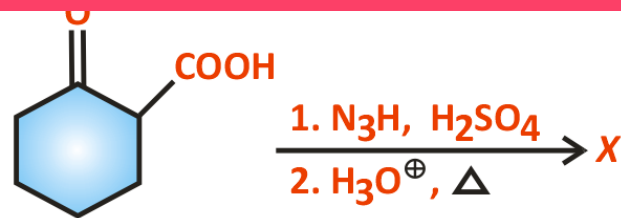
Ans. : C

The reaction of p-aminophenol with one mole of acetyl chloride in presence of pyridine gives:

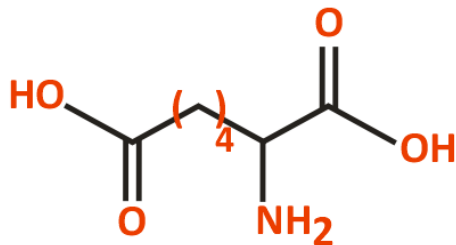


Ans. : D

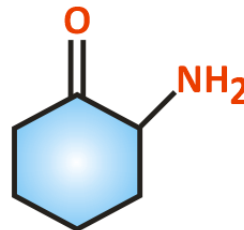
The major product (X) formed in the reaction :



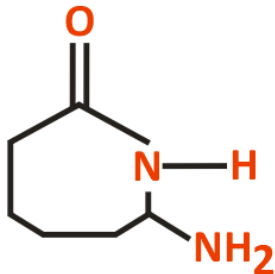
A



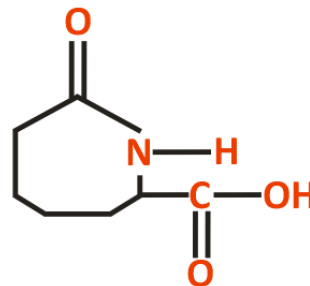
B



C

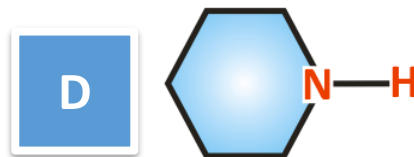
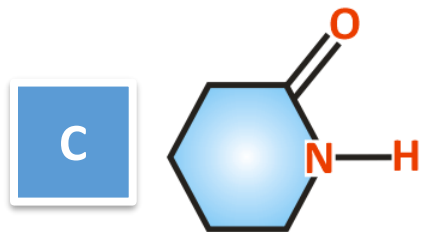
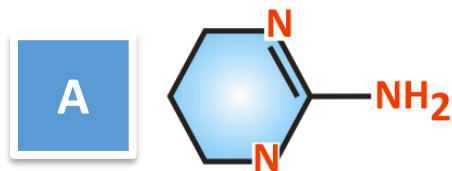


D



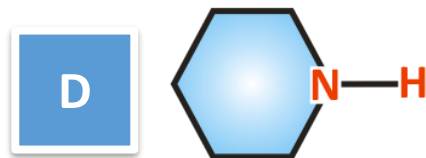
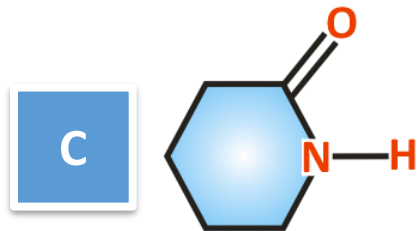
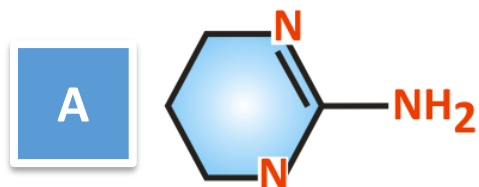
Ans. : A

Which of the following is the strongest Bronsted acid?



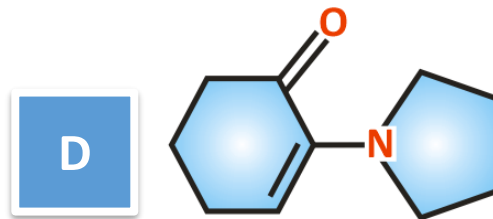
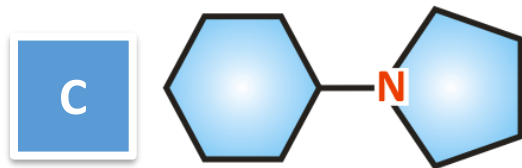
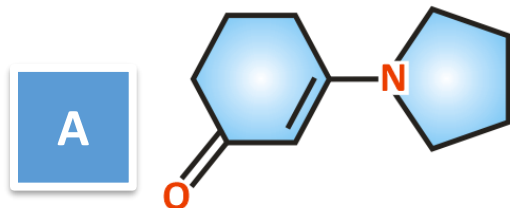
Ans. : C

Which of the following is the strongest Bronsted base?



Ans. : A

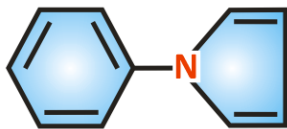
Which of the following is the weakest Bronsted base?



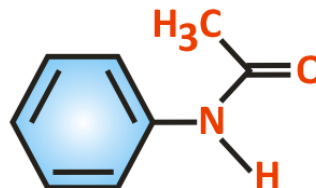
Ans. : A

Which of the following is strongest Bronsted base?

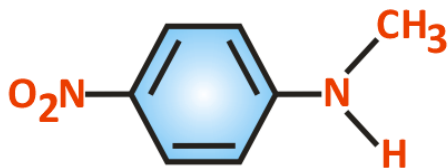
A



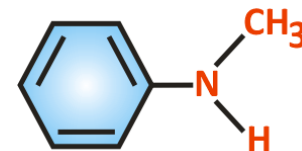
B



C

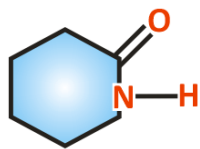


D

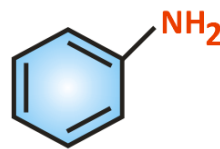


Ans. : D

For the following compounds, which is the strongest base and which is strongest acid?



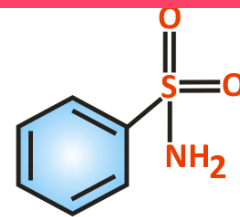
(I)



(II)



(III)



(IV)

A

II = Strongest base,
I = Strongest acid

B

IV = Strongest base,
III = Strongest acid

C

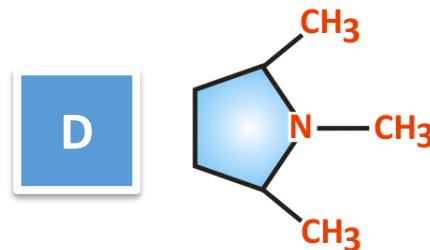
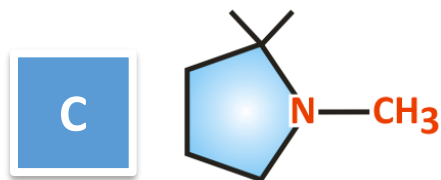
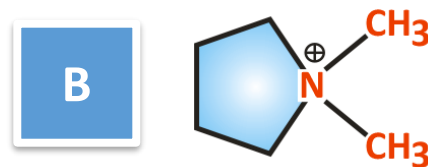
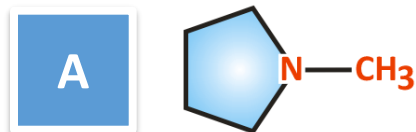
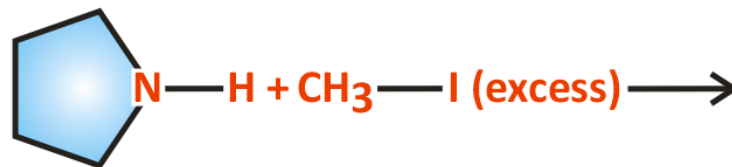
III = Strongest base,
IV = Strongest acid

D

II = Strongest base,
III = Strongest acid

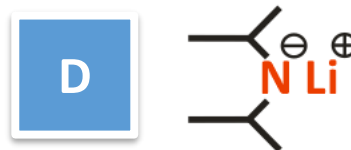
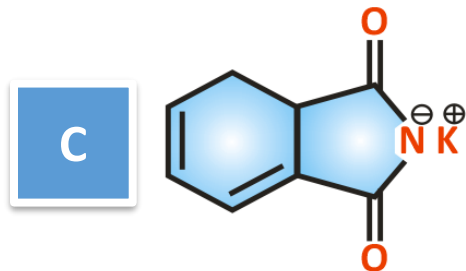
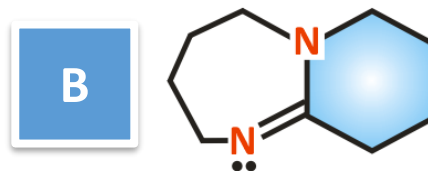
Ans. : C

Which compound is the likely product from following reaction?



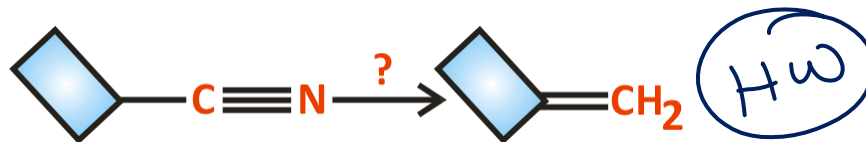
Ans. : B

Which of these is the strongest base?



Ans. : D

What sequence of reaction would best accomplish the following reaction?



A

 $\text{LiAlH}_4, 3\text{CH}_3\text{I} / \text{AgOH}, \Delta$

B

 $\text{LiAlH}_4, \text{P}_2\text{O}_5 / \Delta$

C

 $20\% \text{H}_2\text{SO}_4 / \Delta, \text{P}_2\text{O}_5 / \Delta$

D

 $\text{H}_2, \text{Pd} - \text{BaSO}_4$

Ans. : A



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864 Learners secured 99+ percentile

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