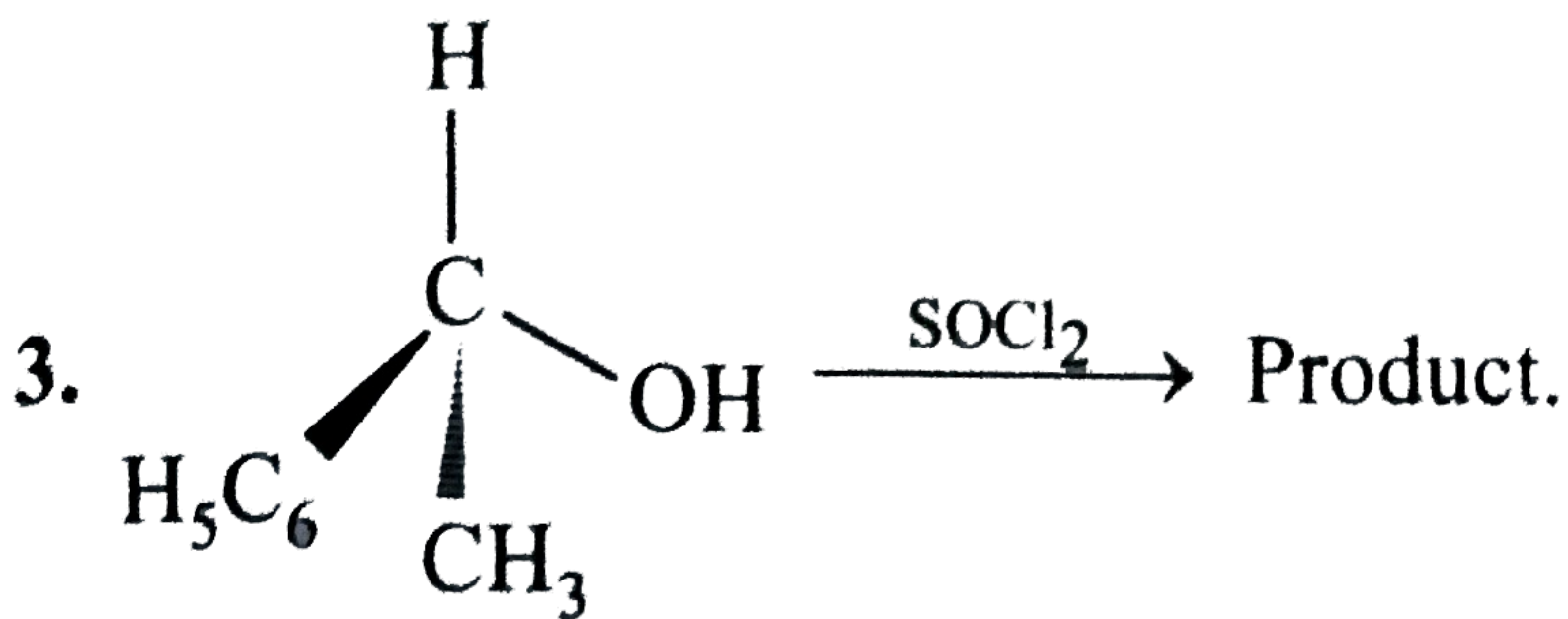
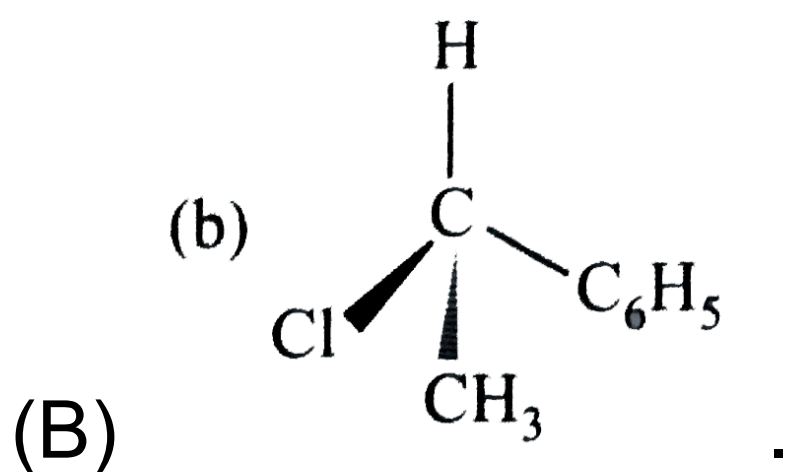
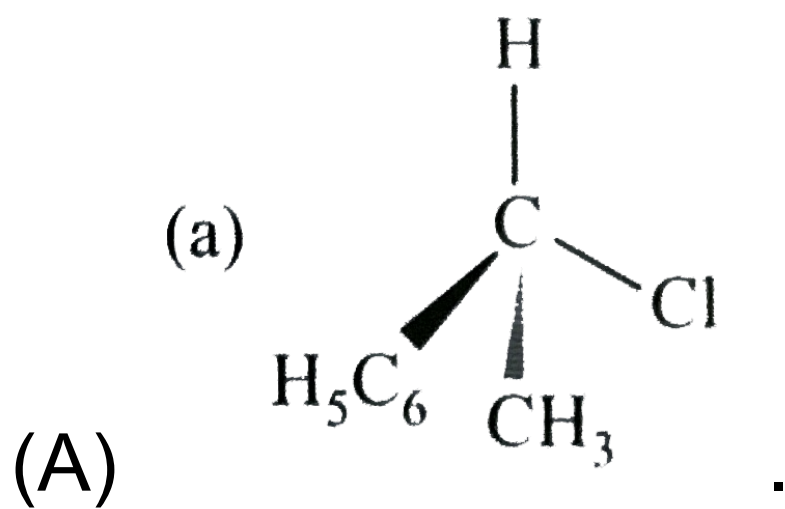


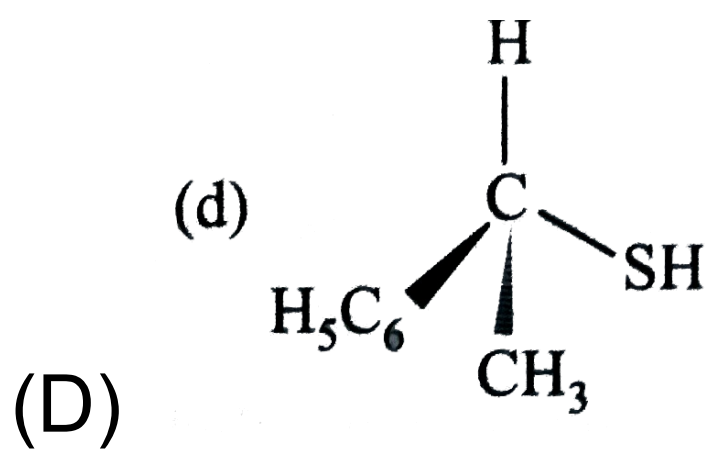
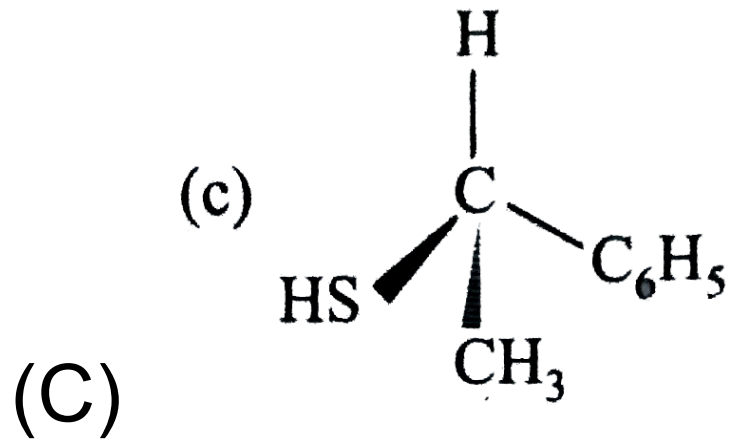
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Q-1 - 12661984



Identify the product



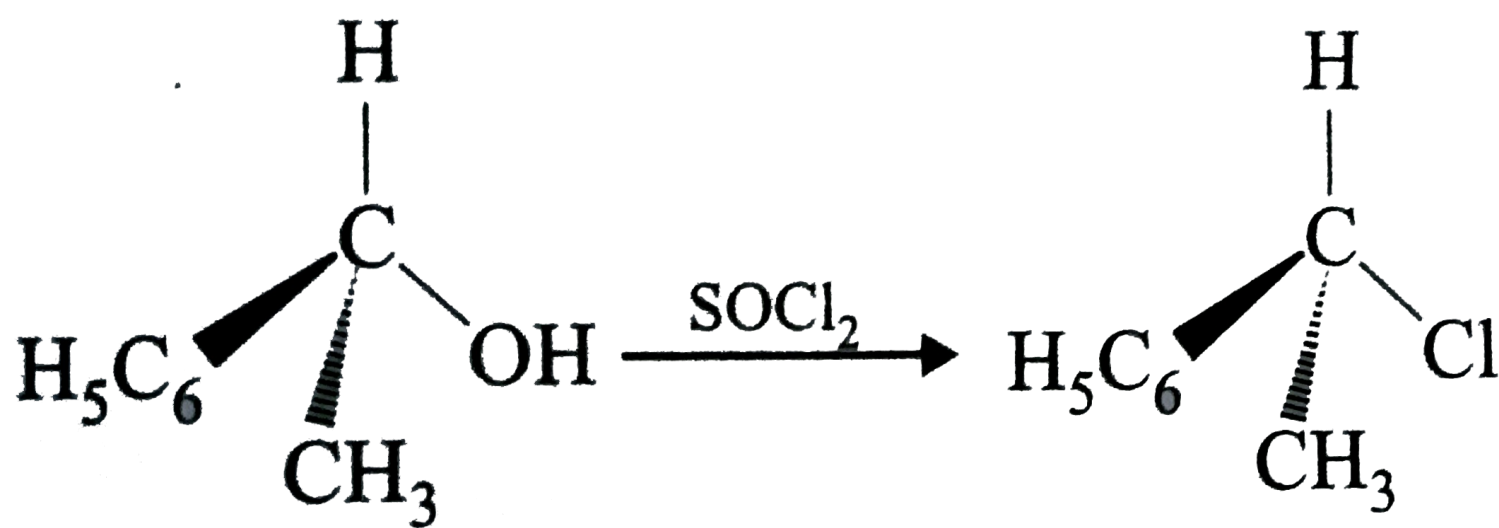


---

CORRECT ANSWER: A

---

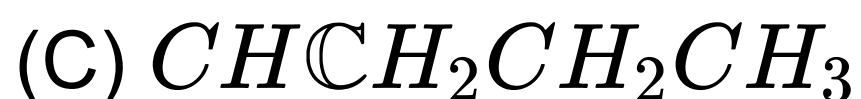
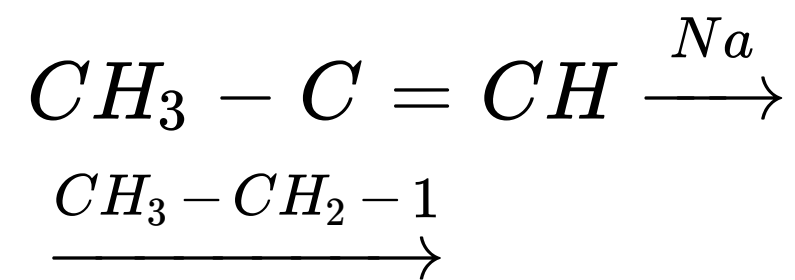
SOLUTION:



it is  $S_N1$  mechanism so retention of configuration

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What is the final product of reaction

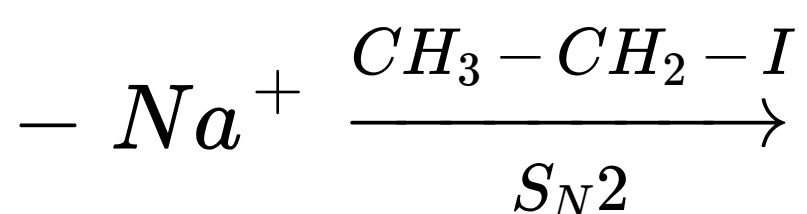
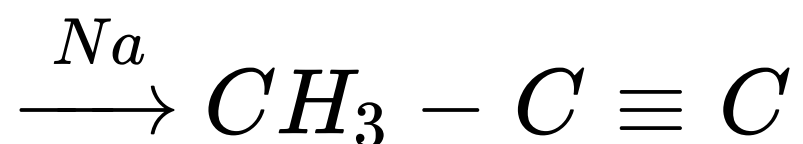


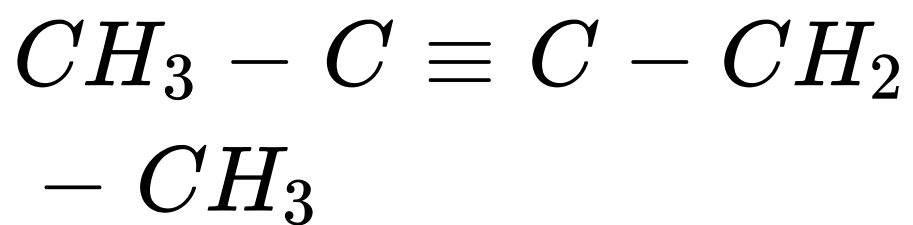
---

CORRECT ANSWER: D

---

SOLUTION:

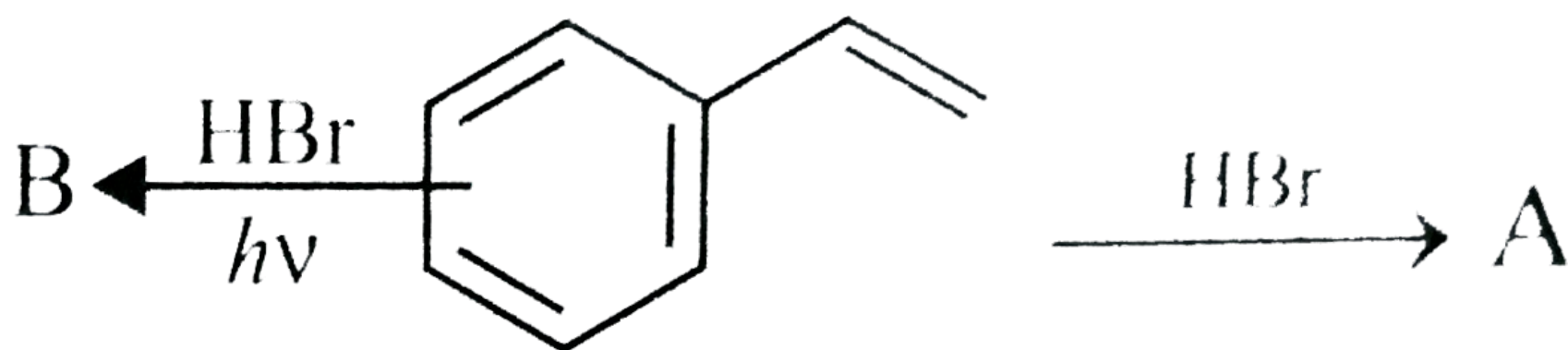




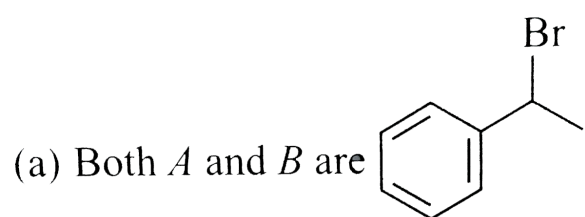
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Q-3 - 12662001

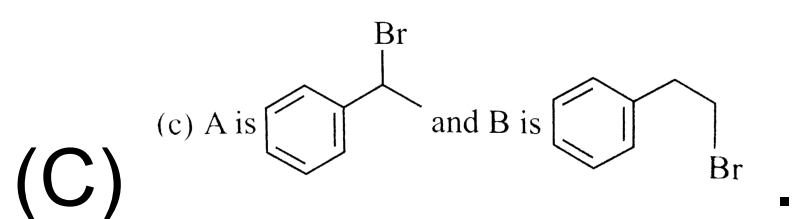
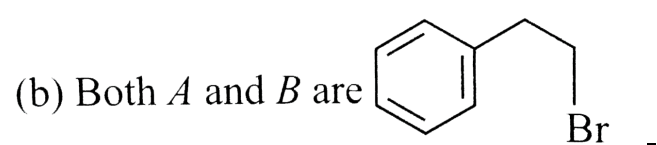
Analyse the following reaction and identify the nature of *A* and *B*



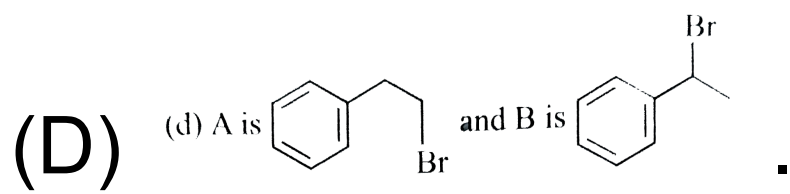
(A) Both *A* and *B* are



(B) Both *A* and *B* are



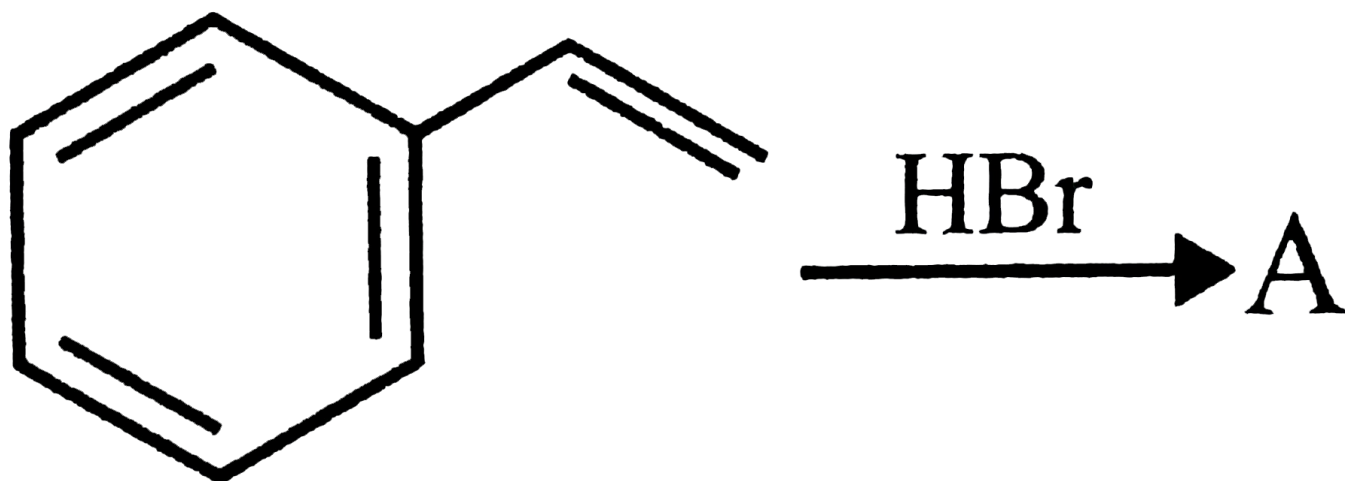
(C)



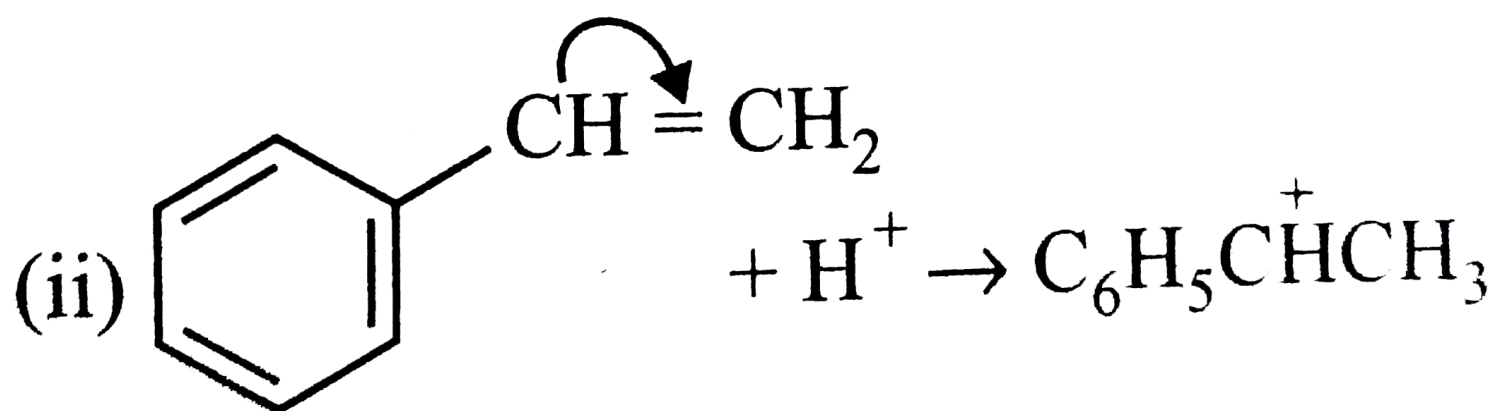
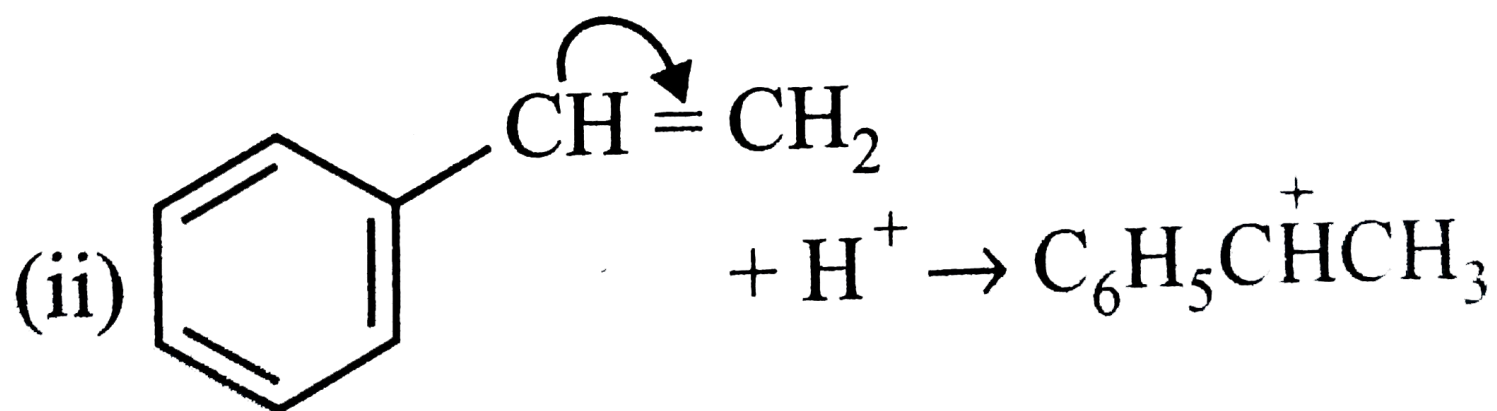
CORRECT ANSWER: C

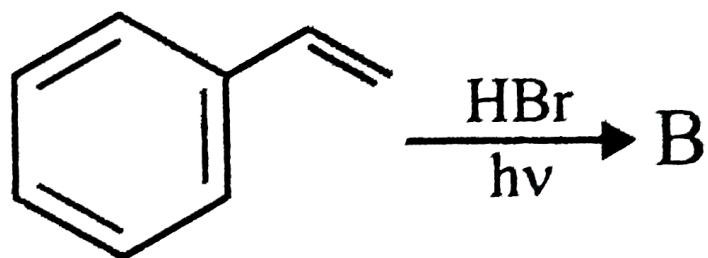
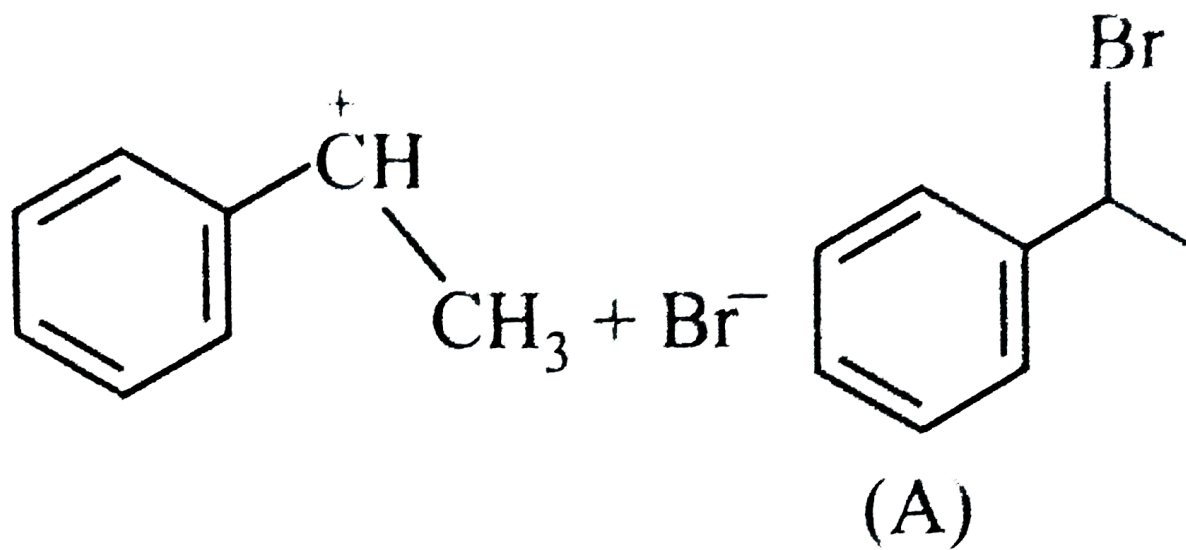
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SOLUTION:

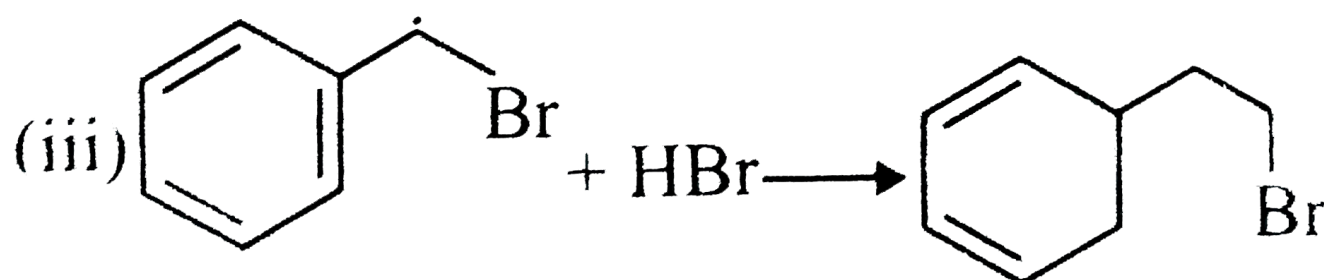
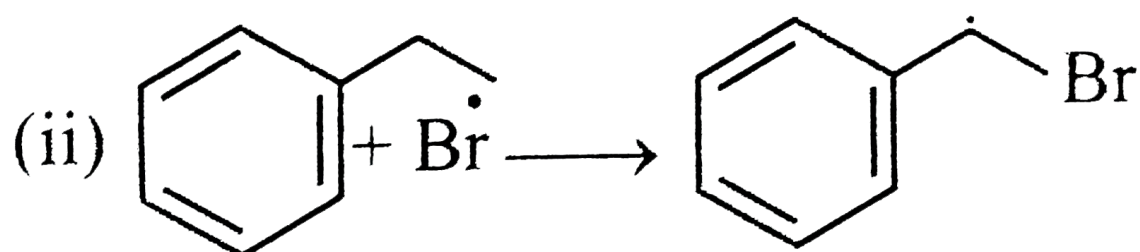


Formation of A is an electrophilic addition reaction





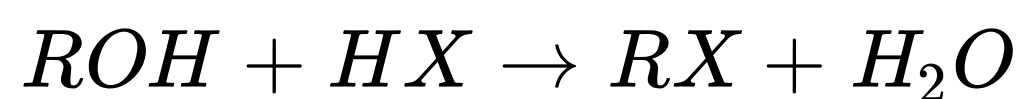
Formation of *B* is a free radical addition reaction



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Q-4 - 12662003

Decreasing order of reactivity of *HX* in the reaction



(A)



(B)



(C)



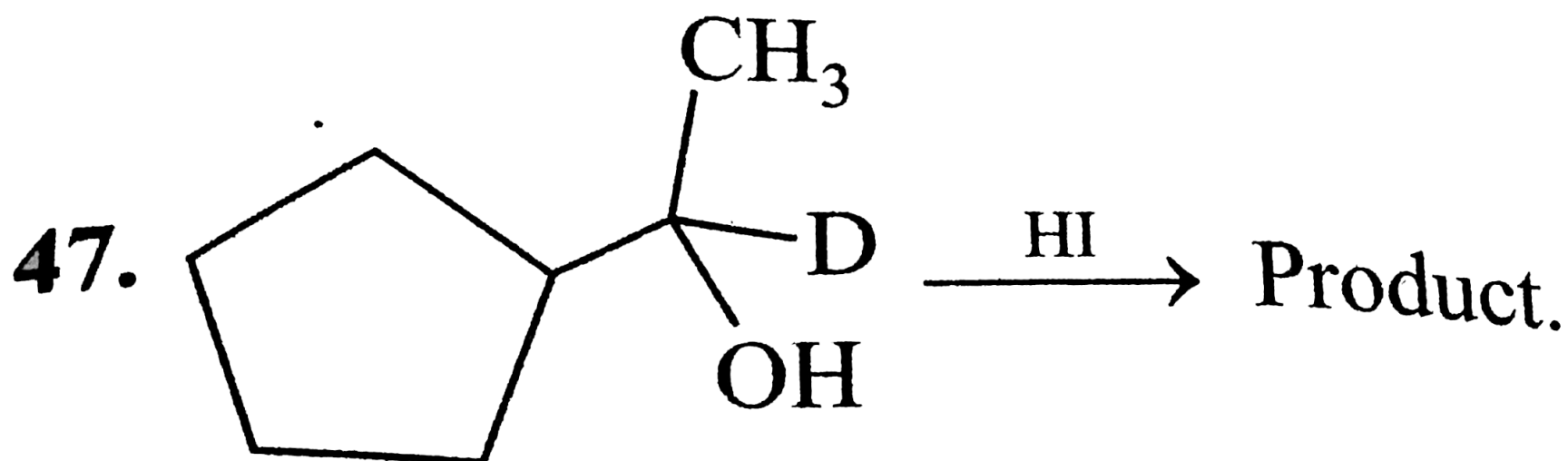
(D)



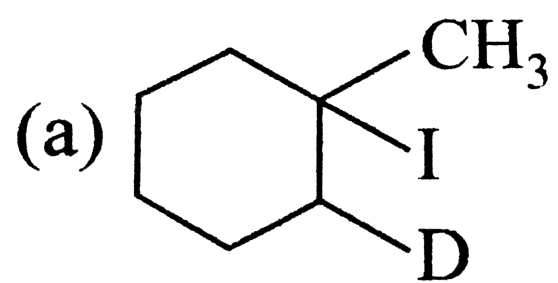
CORRECT ANSWER: A

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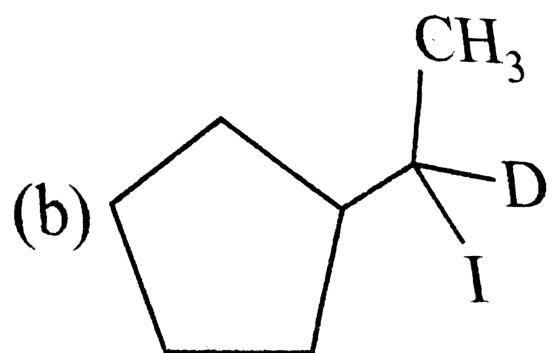
Q-5 - 12662033



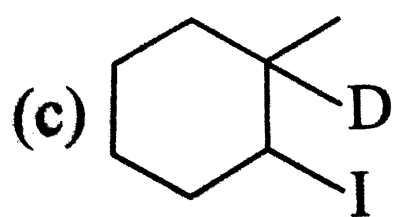
Identify the major product



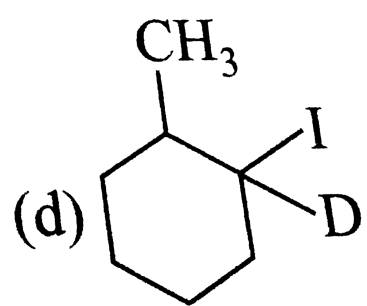
(A)



(B)



(C)



(D)

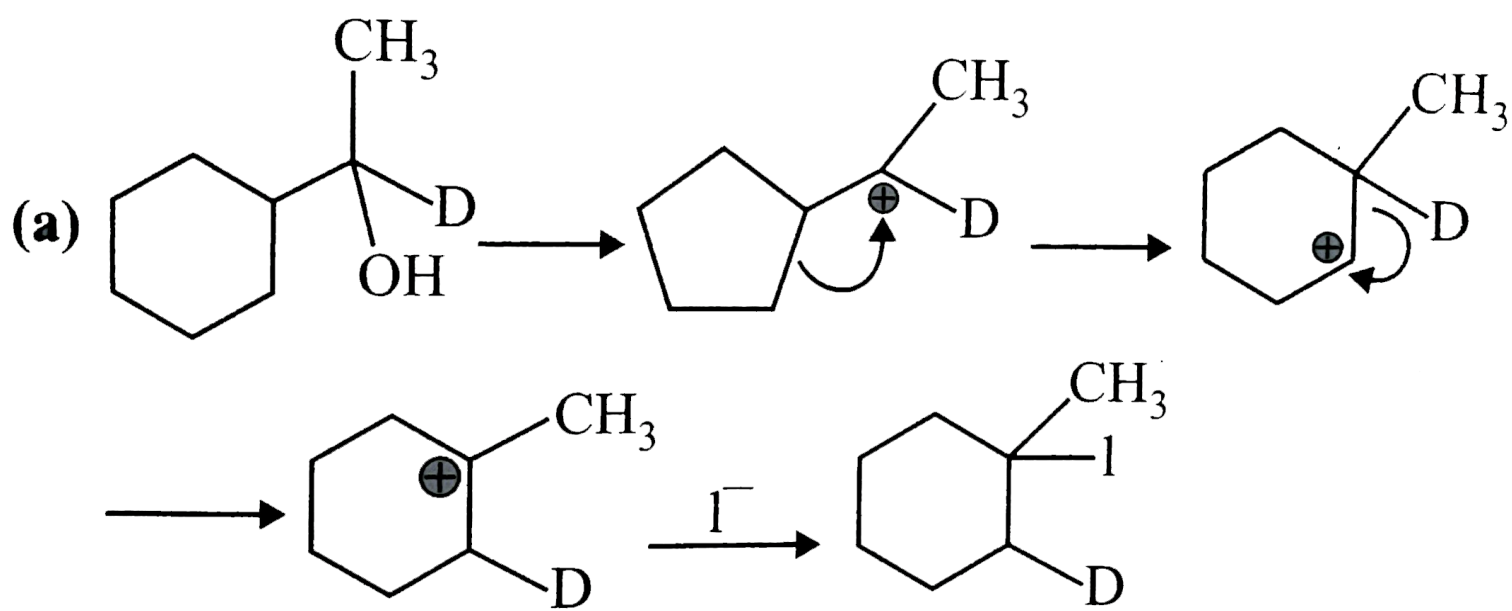
---

CORRECT ANSWER: A

---

SOLUTION:

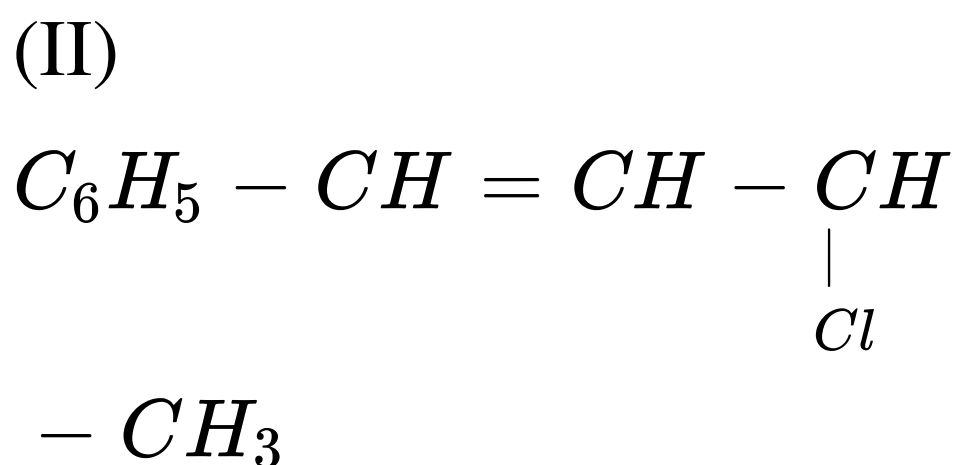
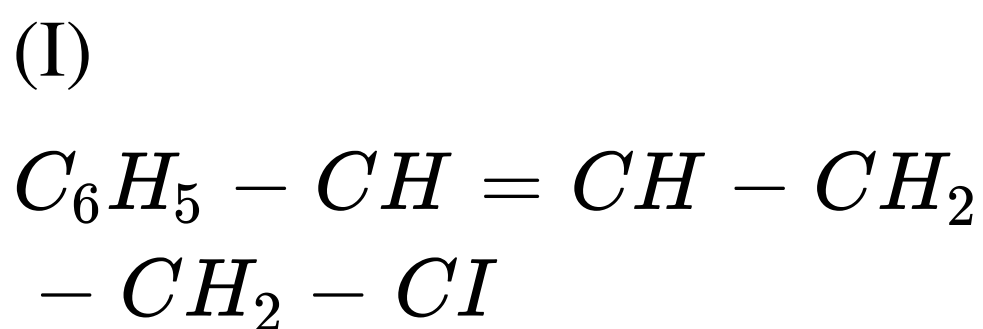




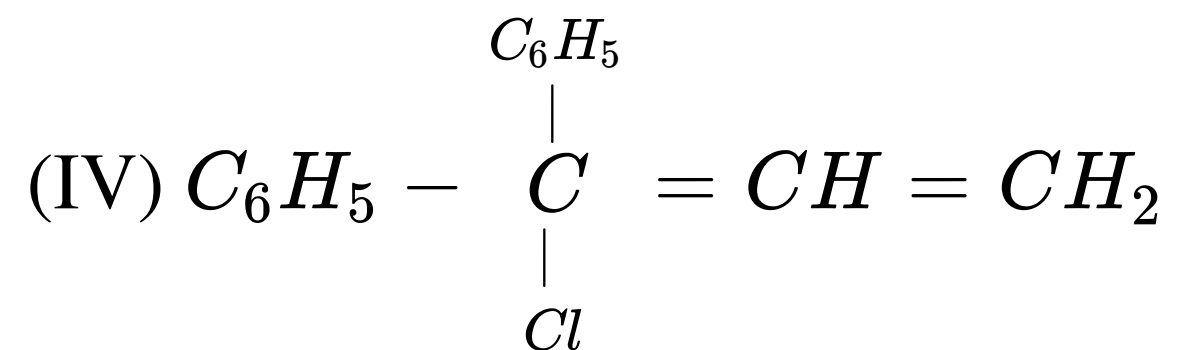
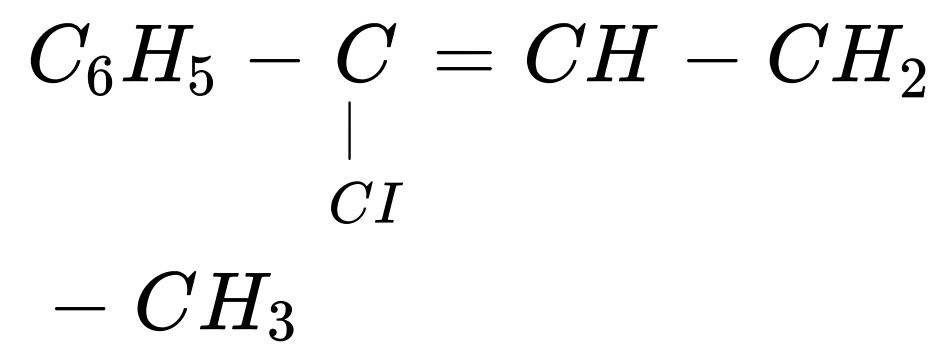
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Q-6 - 12662038

The increasing order of reactivity of the following isomeric halides with  $AgNO_3(H_2O + alcohol)$  is



(III)



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

(B)  $III < IV < II$

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

(D)

$III < I < II < IV$   
 $< III$

---

CORRECT ANSWER: C

---

SOLUTION:

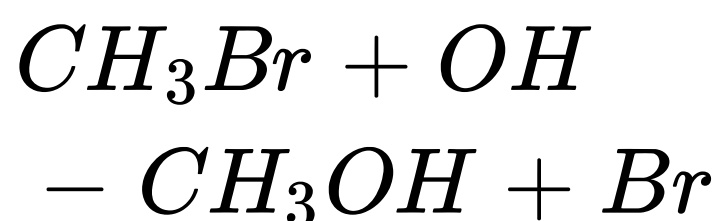
On the basis of carbocation stability .

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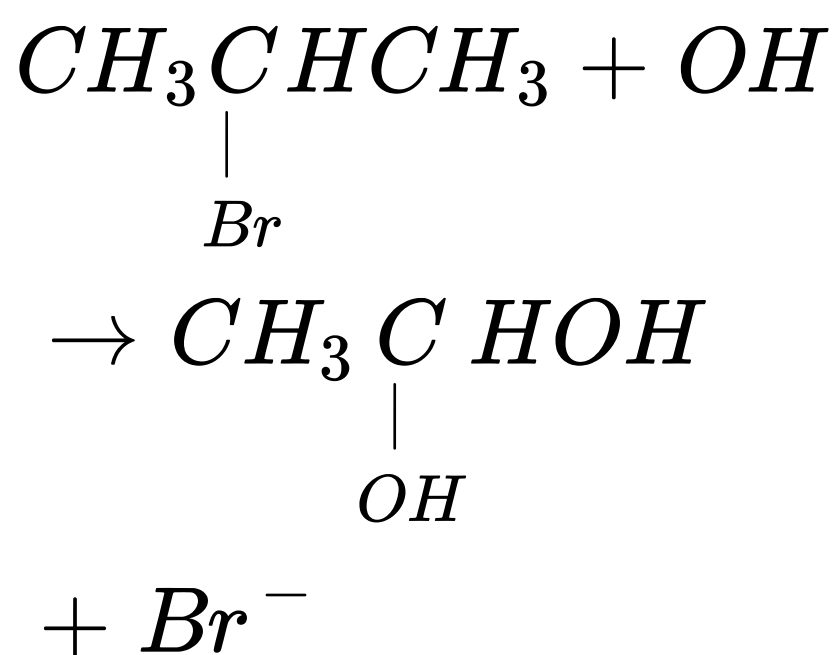
Q-7 - 12662041

Which of the following is the example of  $S_N2$  reaction .

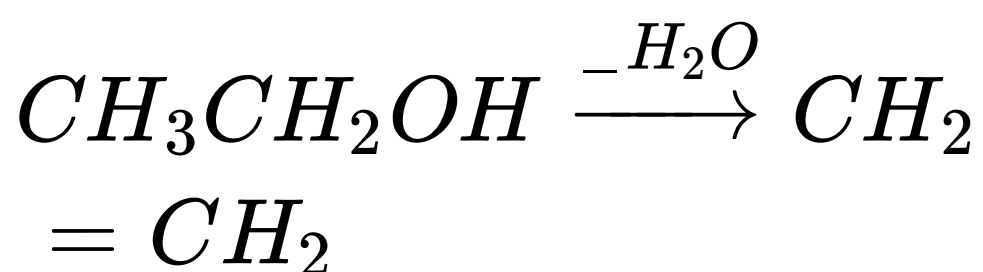
(A)



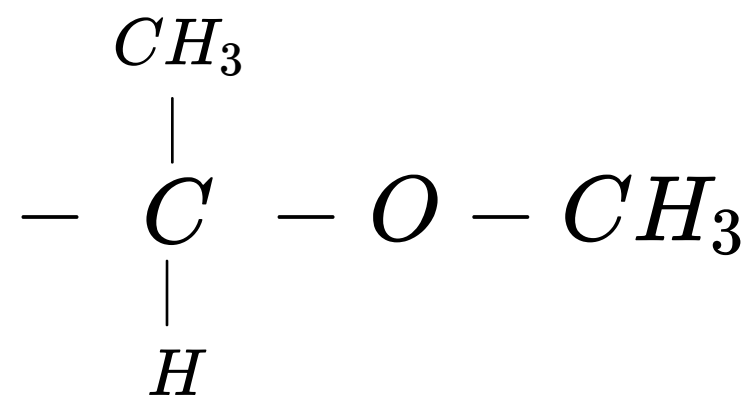
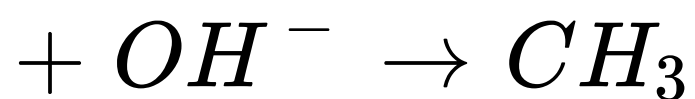
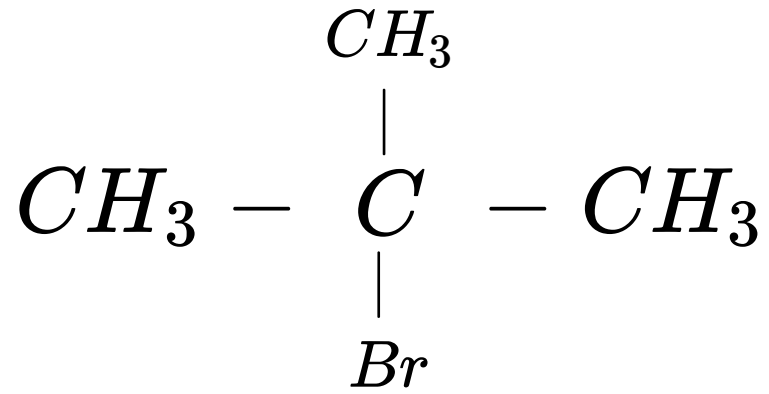
(B)



(C)



(D)



CORRECT ANSWER: A

---

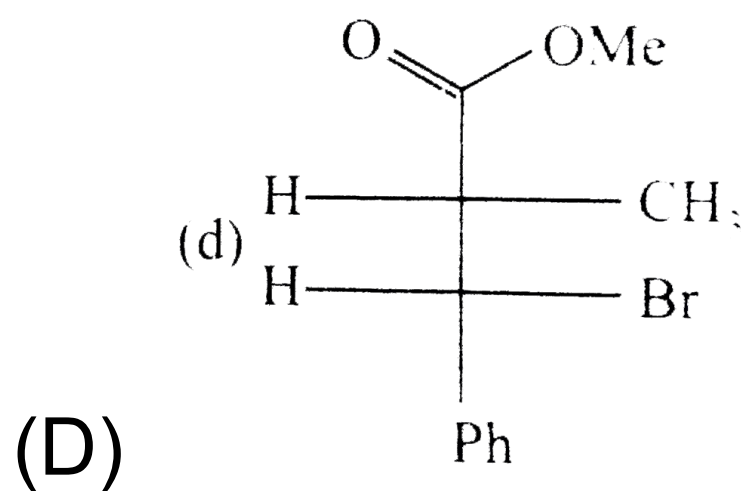
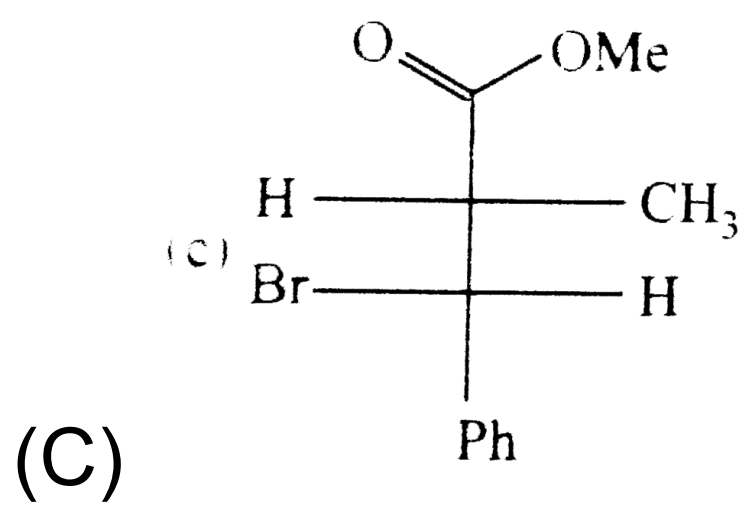
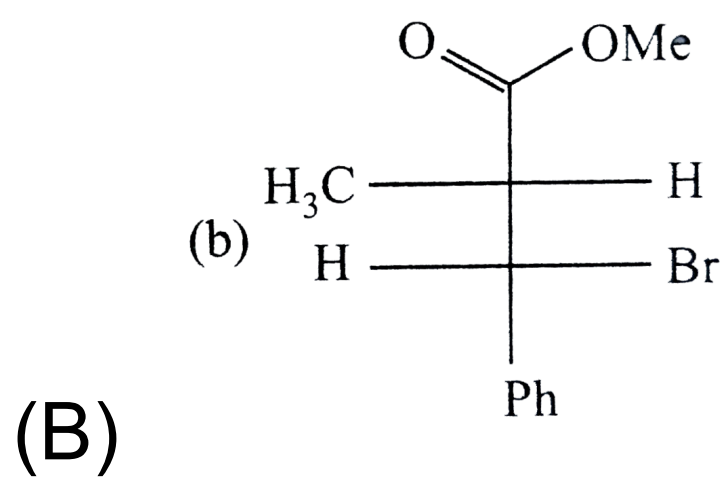
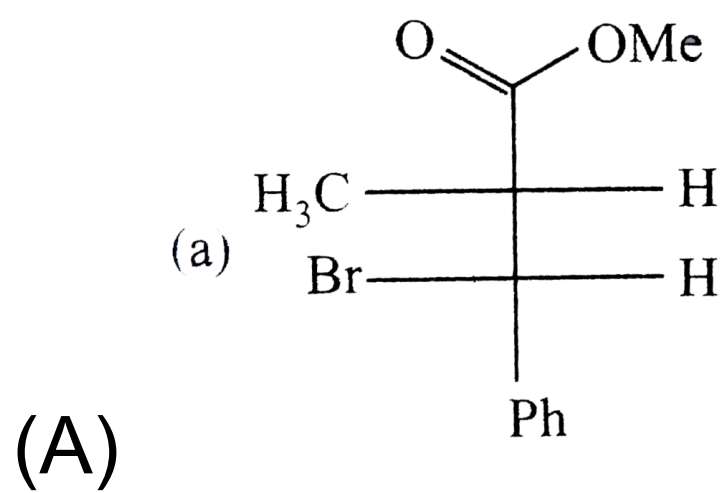
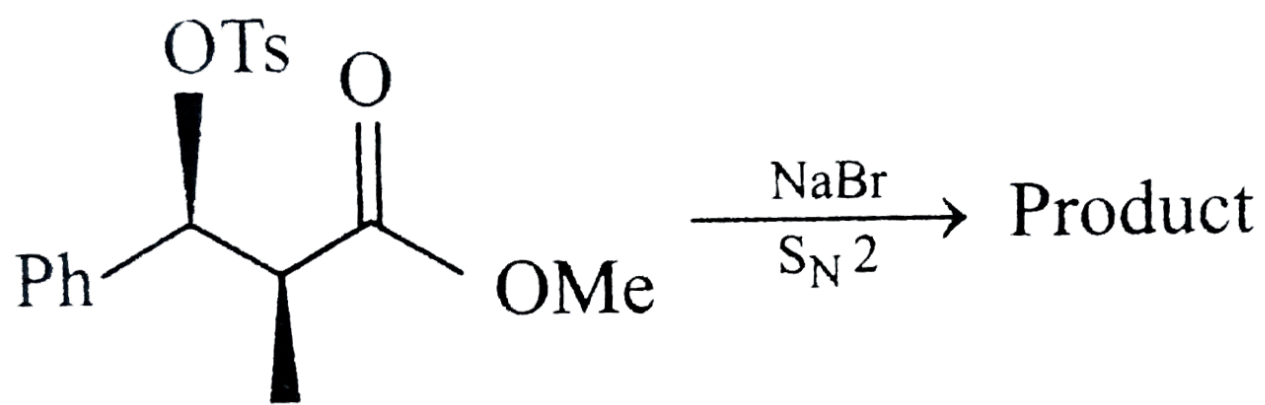
SOLUTION:

Only 1 alkyl halides i.e.  $CH_3Br$  undergoes  $S_N2$  reaction .

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Q-8 - 12662054

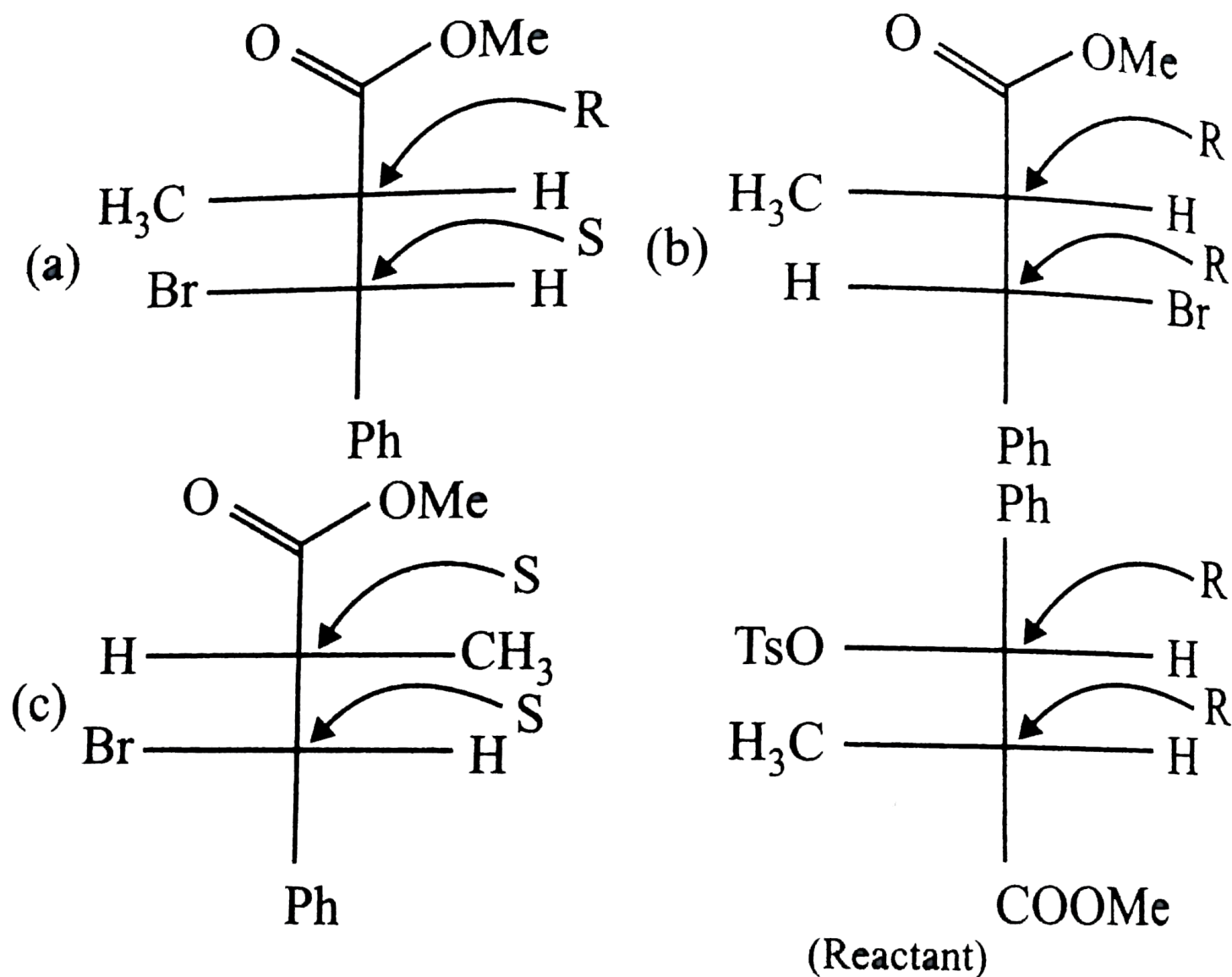
What is the product of the following  $S_N2$  reaction ?



CORRECT ANSWER: C

SOLUTION:

In  $S_N2$  there is complete inversion



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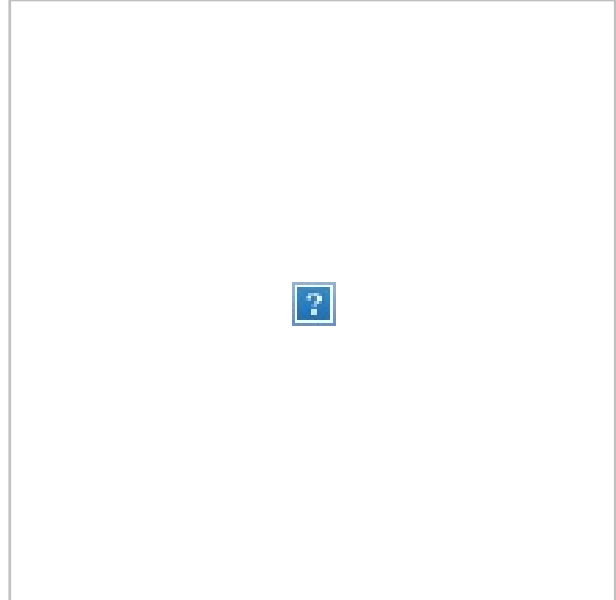
Q-9 - 12662055

Which is the correct reaction coordinate diagram for the following solvolysis reaction ?.

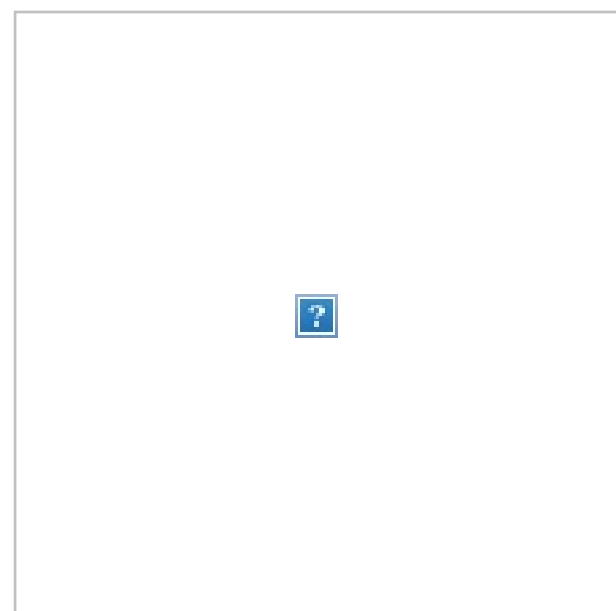


(A)

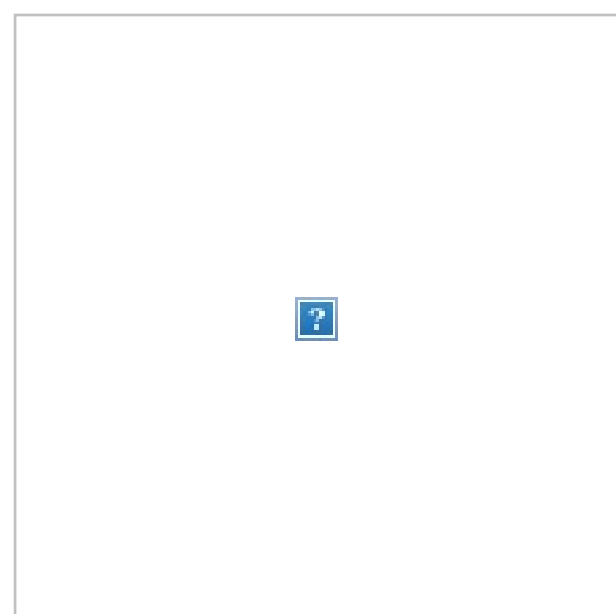
(B)



(C)



(D)



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CORRECT ANSWER: B

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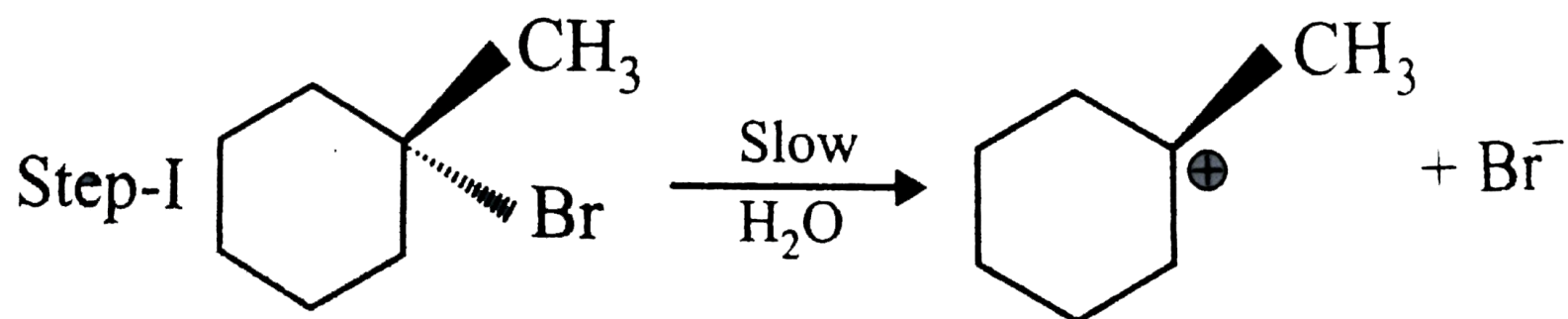
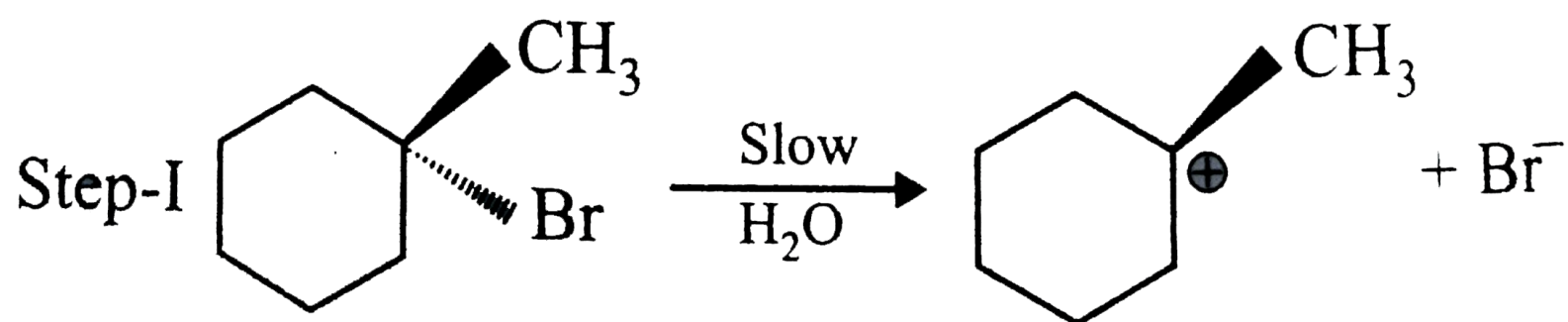
SOLUTION:

Highly endothermic so has high  $\Delta G$  of activation

3 carbocation is stabilised by  $H_2O$



This  $S_N1$  reaction has three transition states and two intermediates

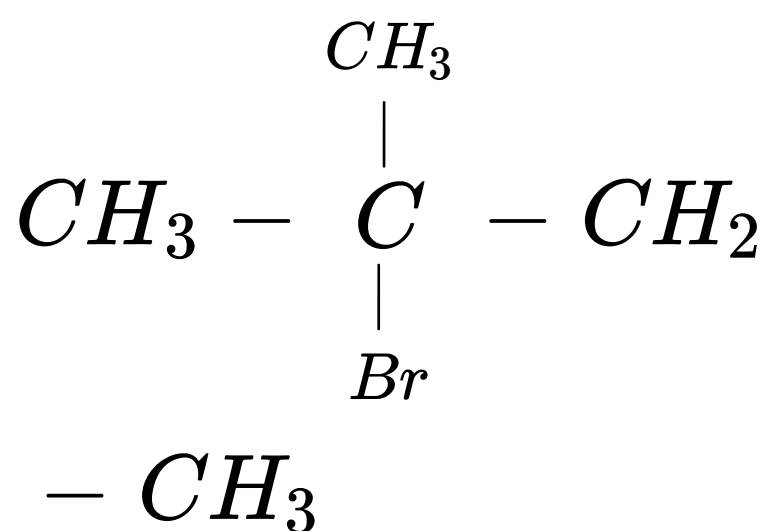


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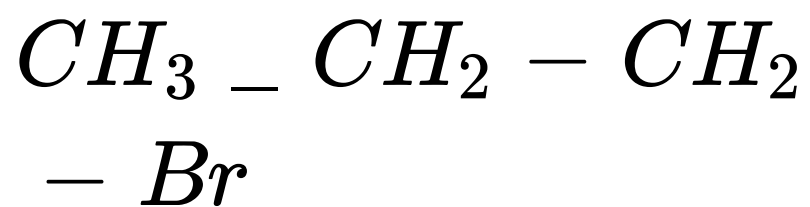
Q-10 - 12662062

Which one of following compounds undergoes  $E1$  reaction most readily?

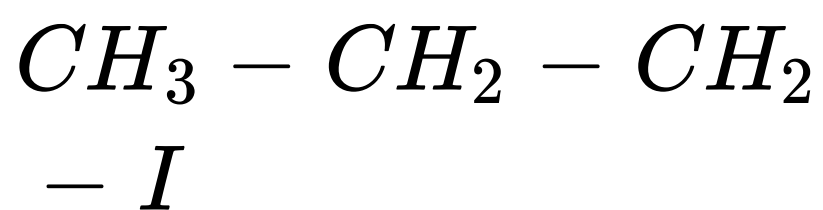
(A)



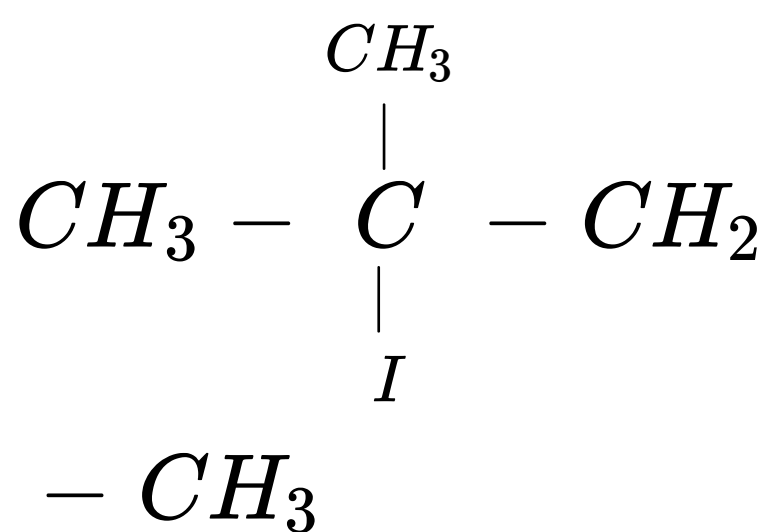
(B)



(C)



(D)



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CORRECT ANSWER: D

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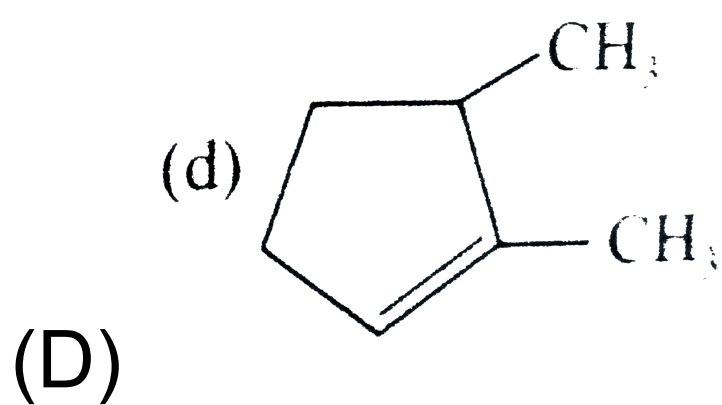
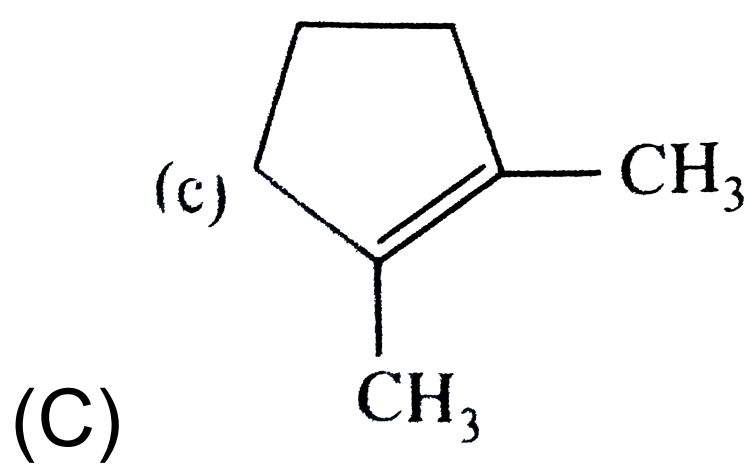
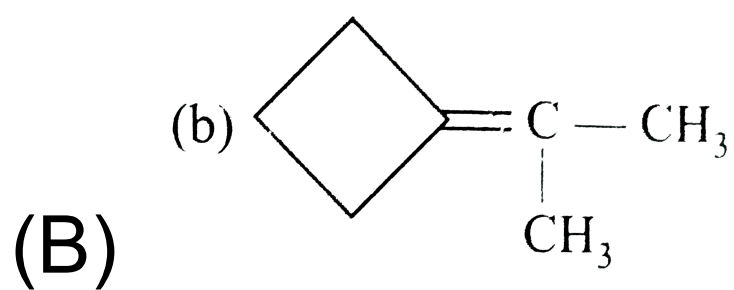
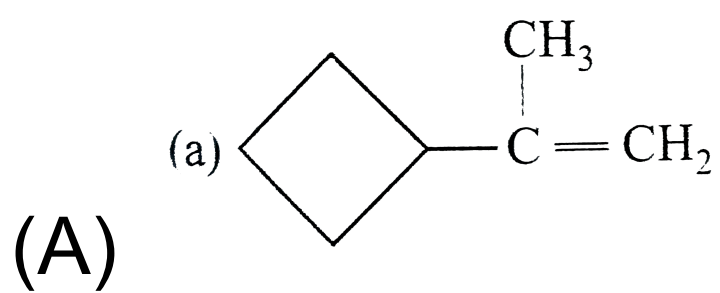
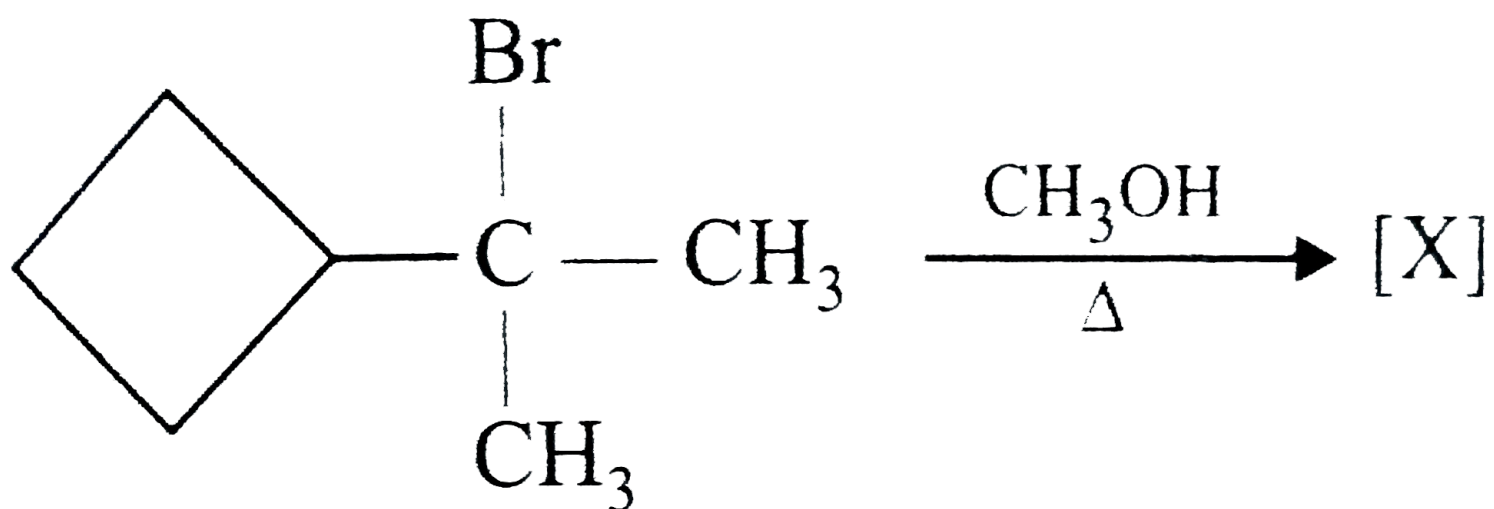
SOLUTION:

According to stability of carbocation and leaving ability of leaving group .

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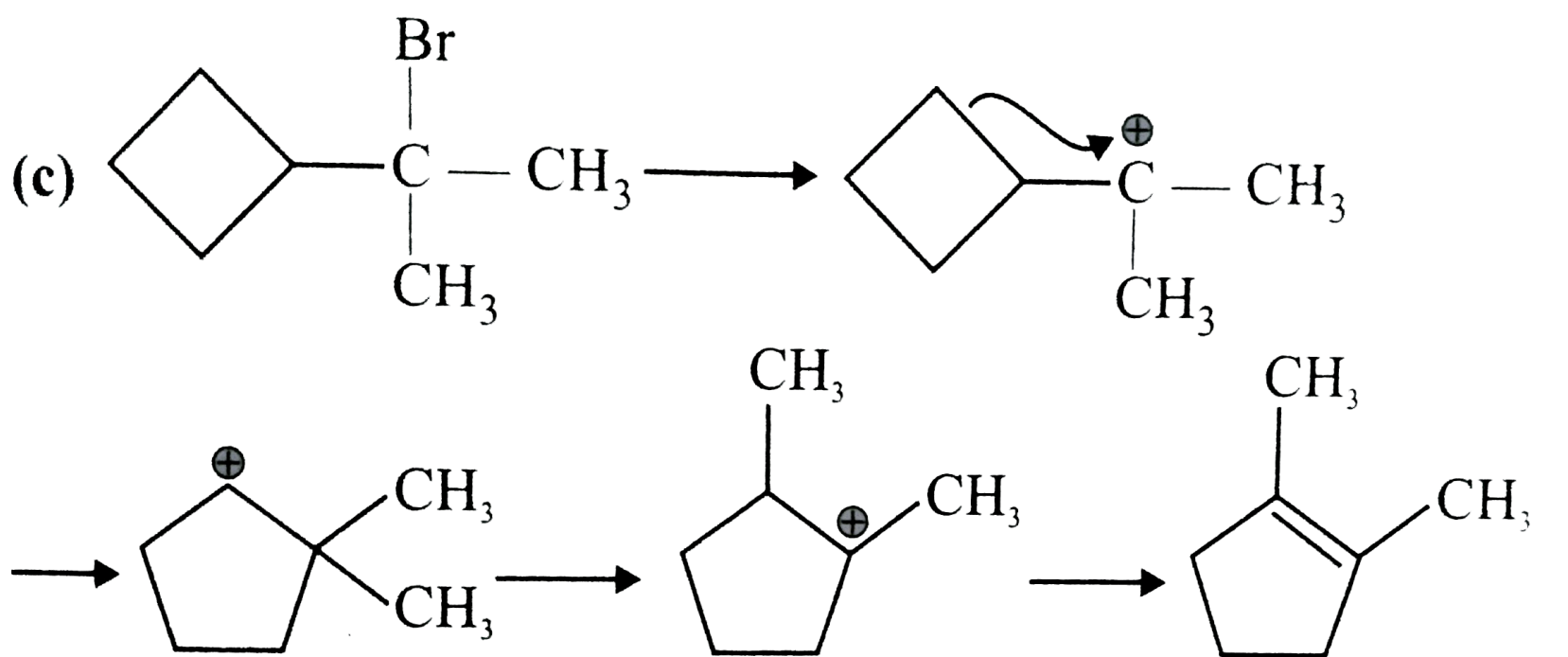
In the given reaction

[X] as the major product among the elimination products is



CORRECT ANSWER: C

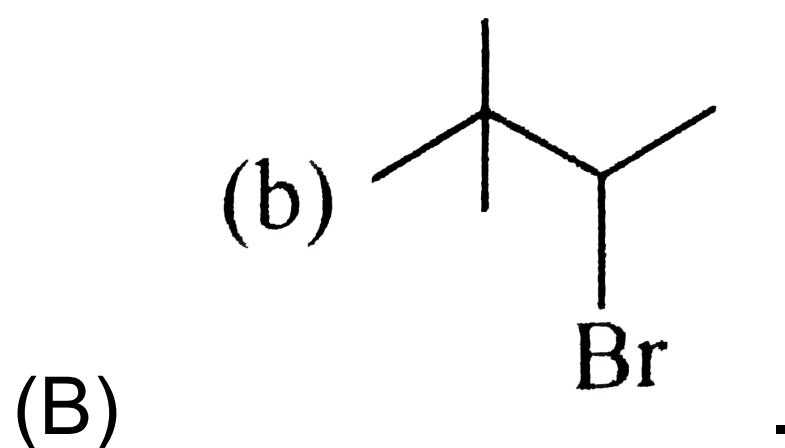
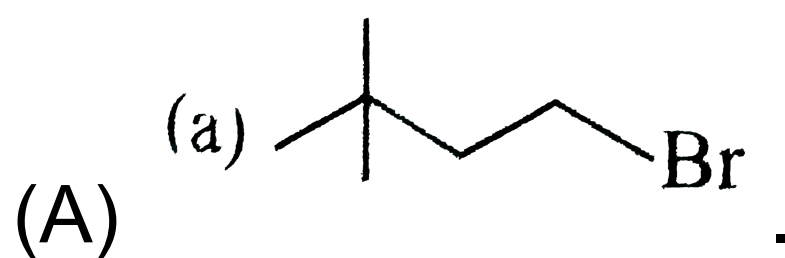
SOLUTION:

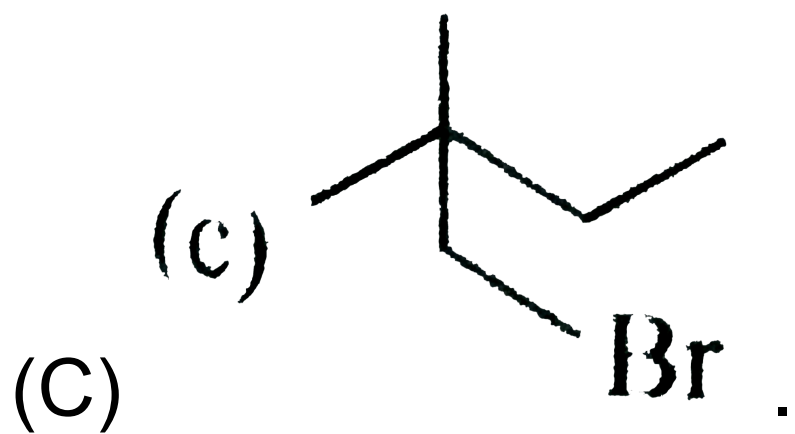


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Q-12 - 12662071

Which of the following cannot undergo *E2* reaction ? .





(D) None of these

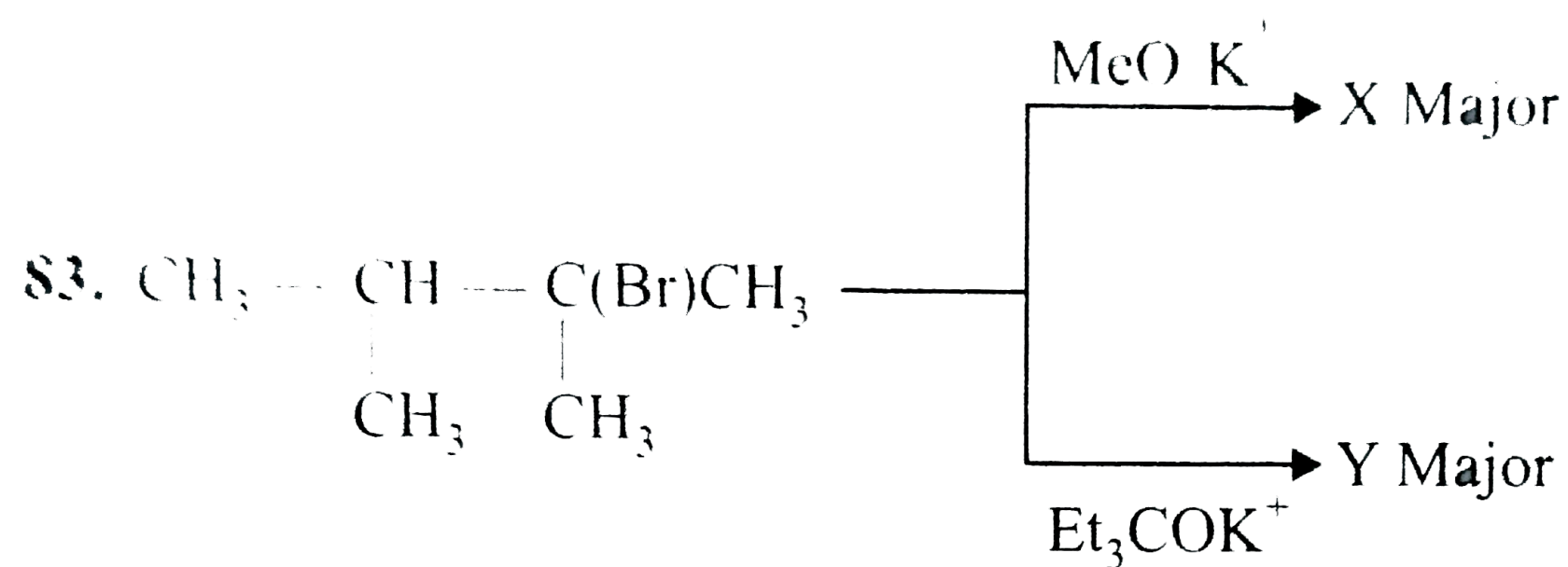
CORRECT ANSWER: C

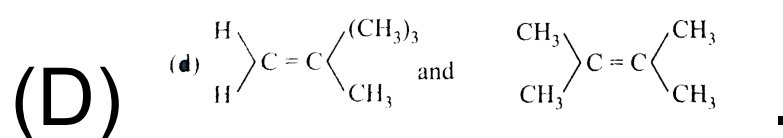
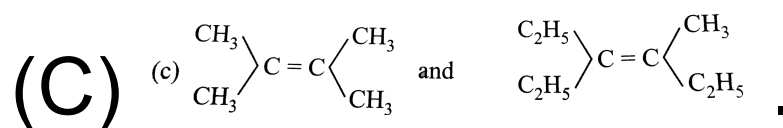
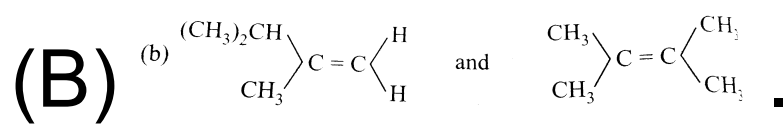
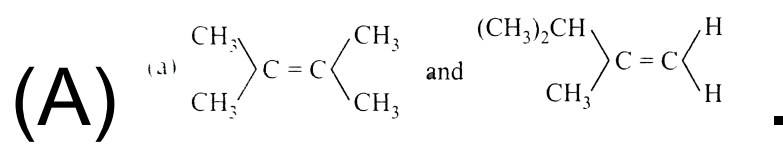
SOLUTION:

Beta-Hydrogen is absent .

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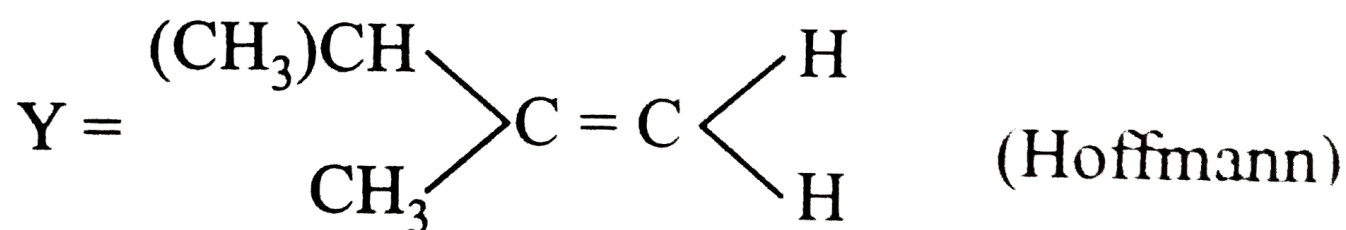
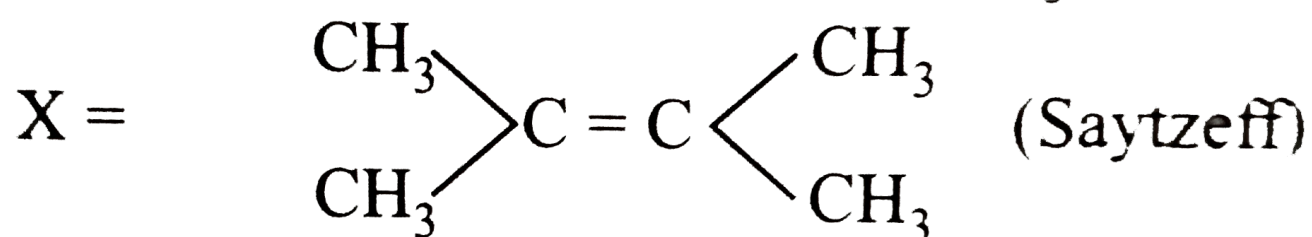
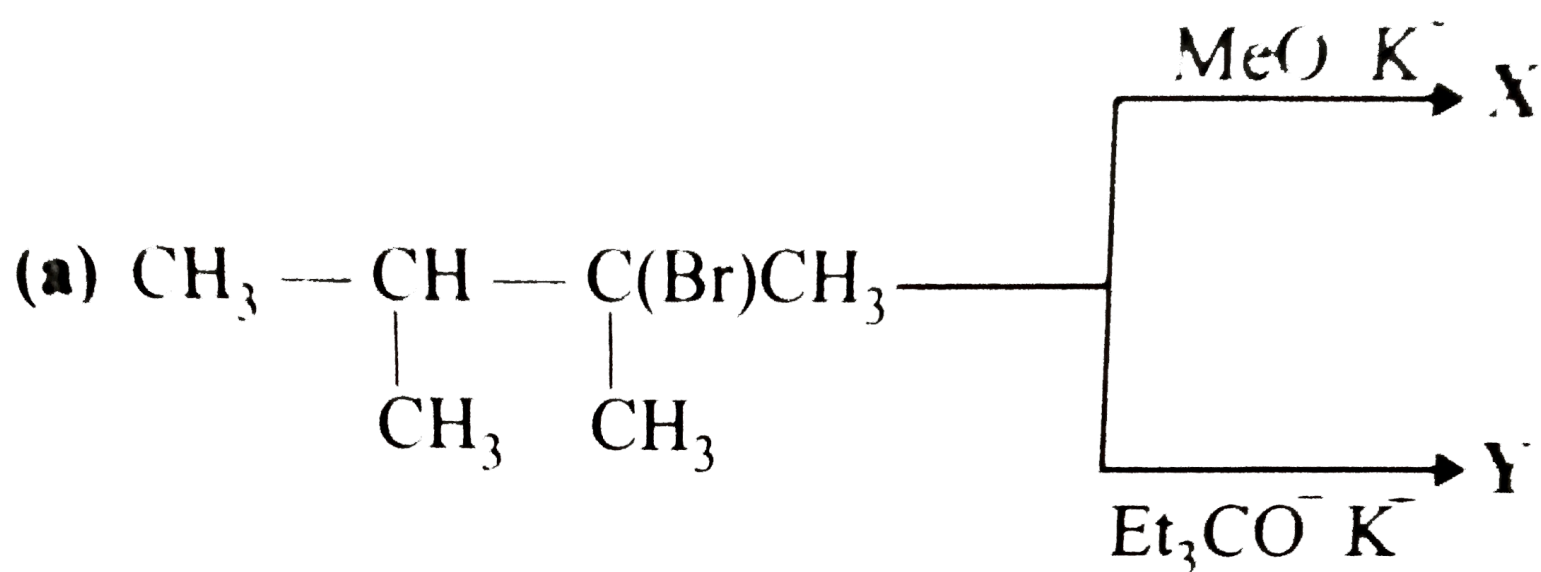
Q-13 - 12662078





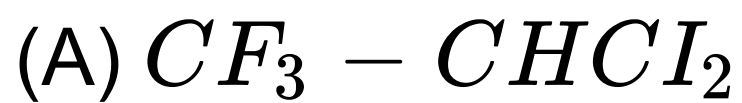
CORRECT ANSWER: A

SOLUTION:

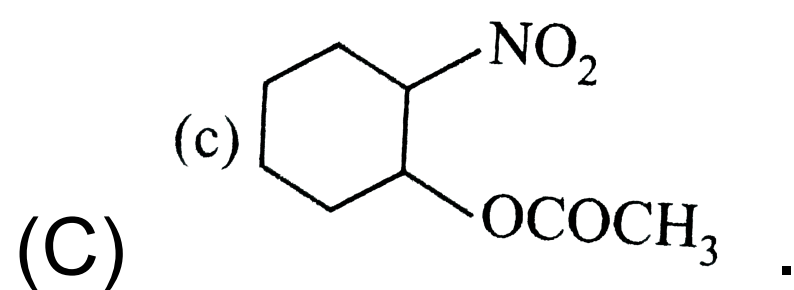
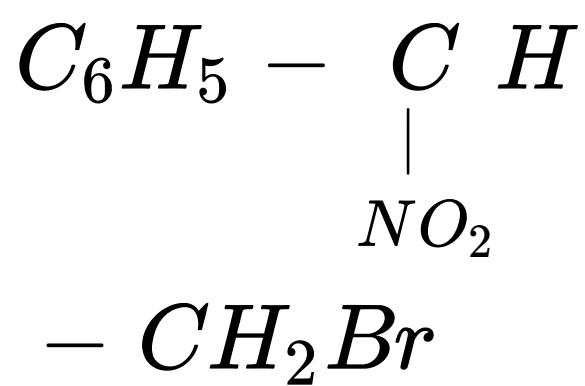


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$E_1$  cB reaction is gives by which of the following



(B)



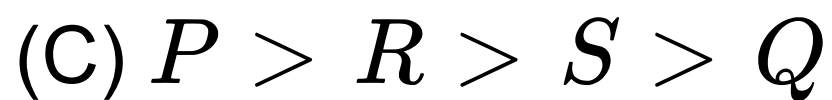
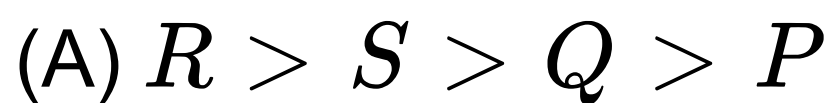
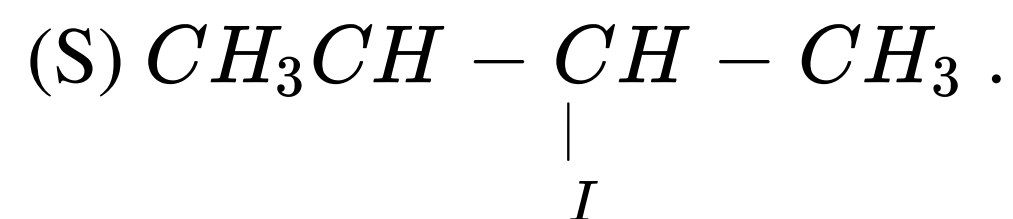
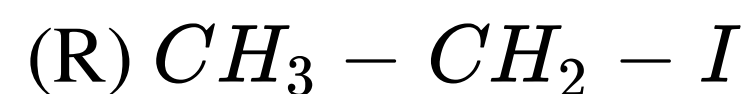
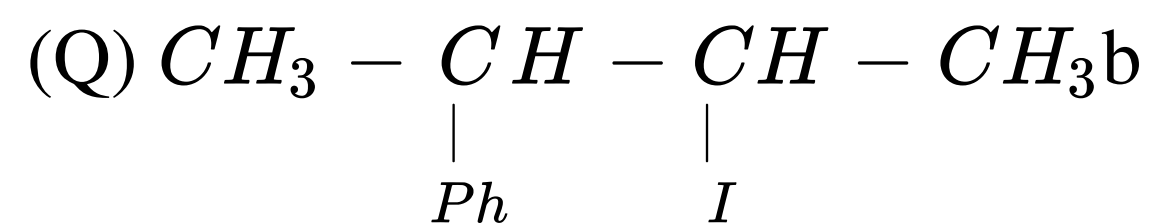
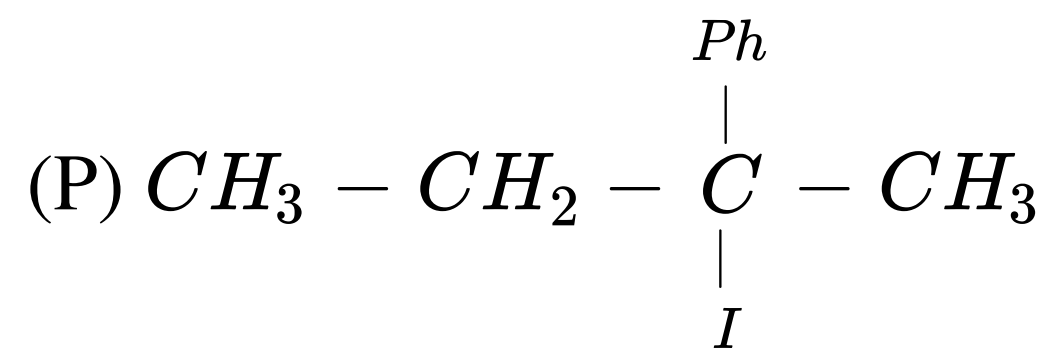
(D) All of these

---

CORRECT ANSWER: D

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The correct order of  $S_N2 / E_2$  ratio for the % yield of product of the following halide is



CORRECT ANSWER: A

SOLUTION:



Rate of  $S_N2$  reaction  $1 > 2 > 3$  as Beta- branching

increases

steric crowding increases in transition state so it makes

less stable transition state .

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Q-16 - 12662095

In Wurtz reaction alkyl halide react with

- (A) Sodium in ether
- (B) Sodium in dry ether
- (C) Sodium only
- (D) Alkyl halide in ether

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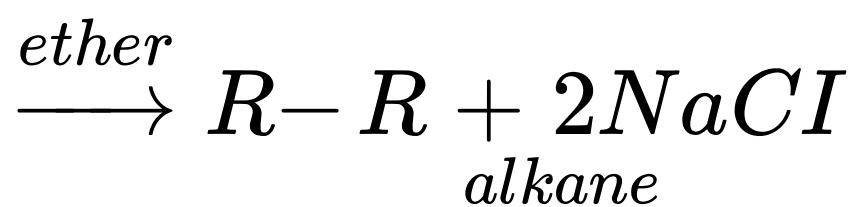
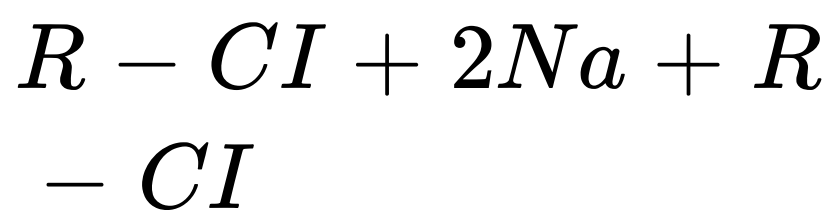
**CORRECT ANSWER: B**

---

**SOLUTION:**

Alkyl halides give alkane when react with sodium in

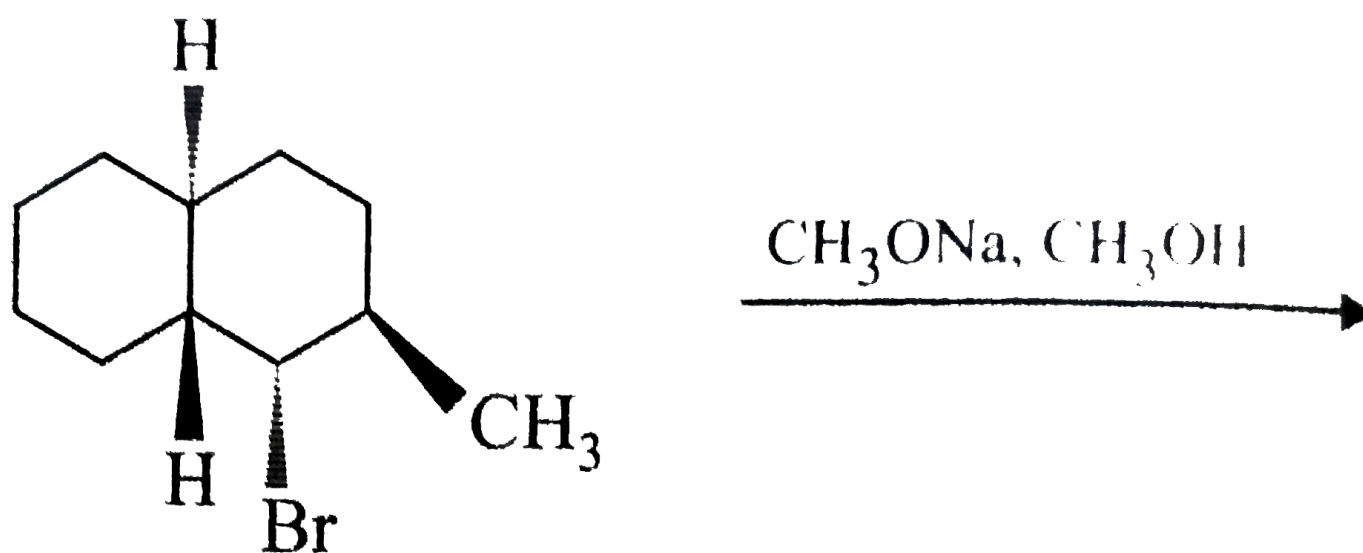
ether This is called Wurtz reaction

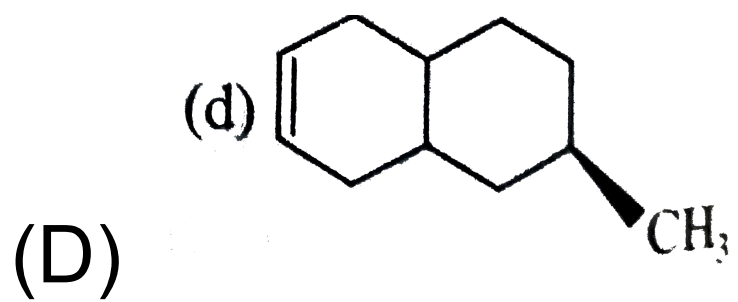
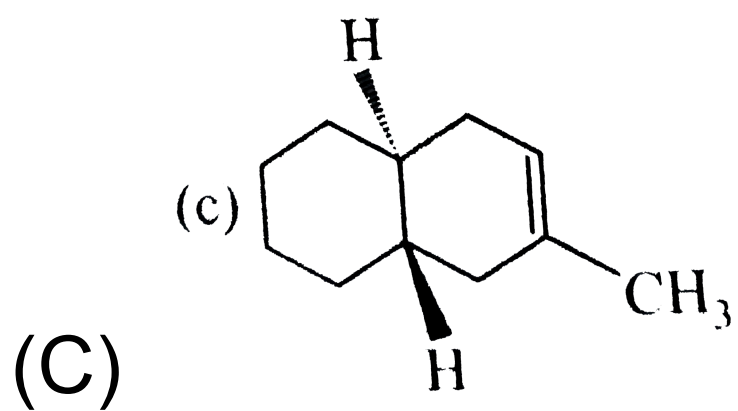
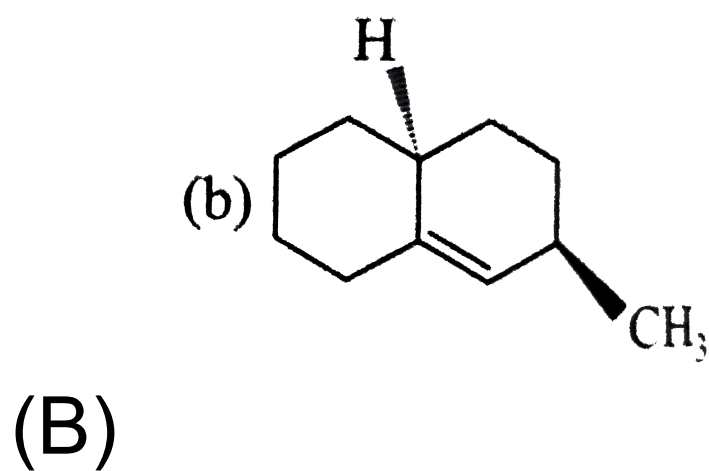
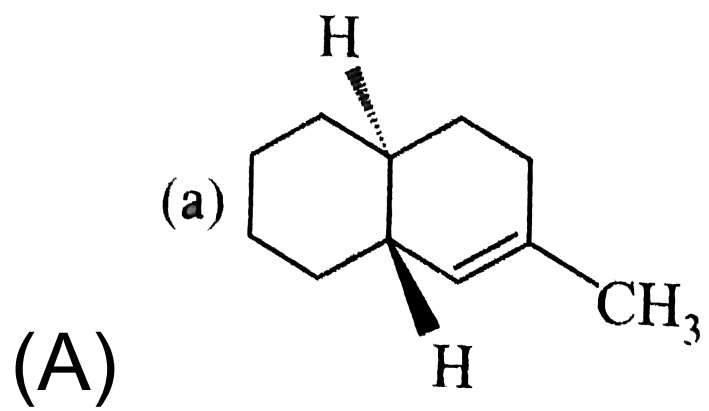


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Q-17 - 12662098

Provide the structure of the major organic product which results in the following reaction.





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CORRECT ANSWER: B

---

SOLUTION:

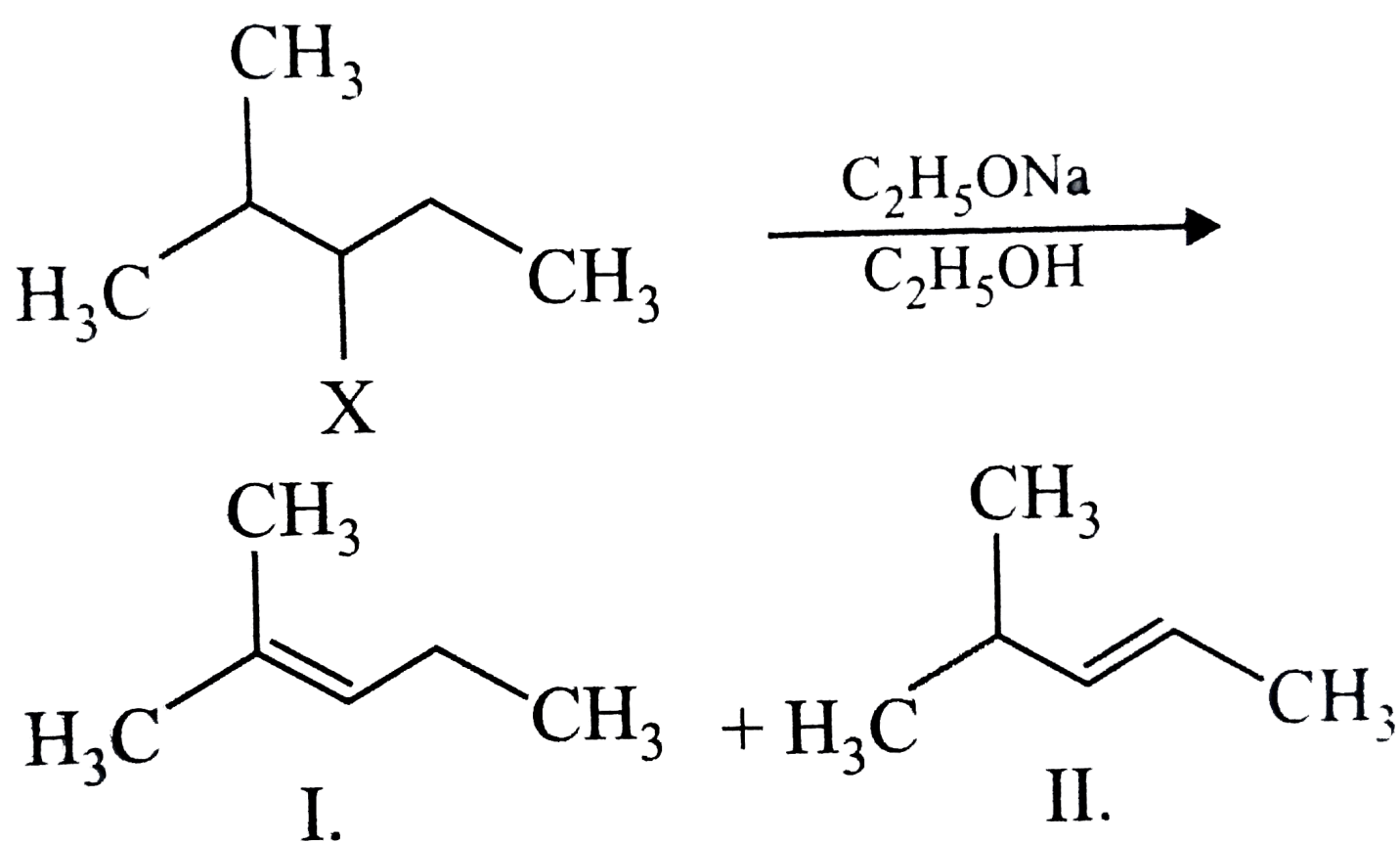
$B\eta$  –  $H$  at the bridging carbon is anti to leaving group  
lost in  $E_2$  reaction .

---

Q-18 - 12662110

In the reaction the given below

The incorrect statement concerning the above reaction is are



- (A) (I) is the major elimination product
- (B) (II) is formed at faster rate than (I)
- (C) (I) is formed at faster rate than (II)
- (D) increasing order of reactivity with different  $X$  is  $F < Cl < Br < I$ .

CORRECT ANSWER: C

---

SOLUTION:

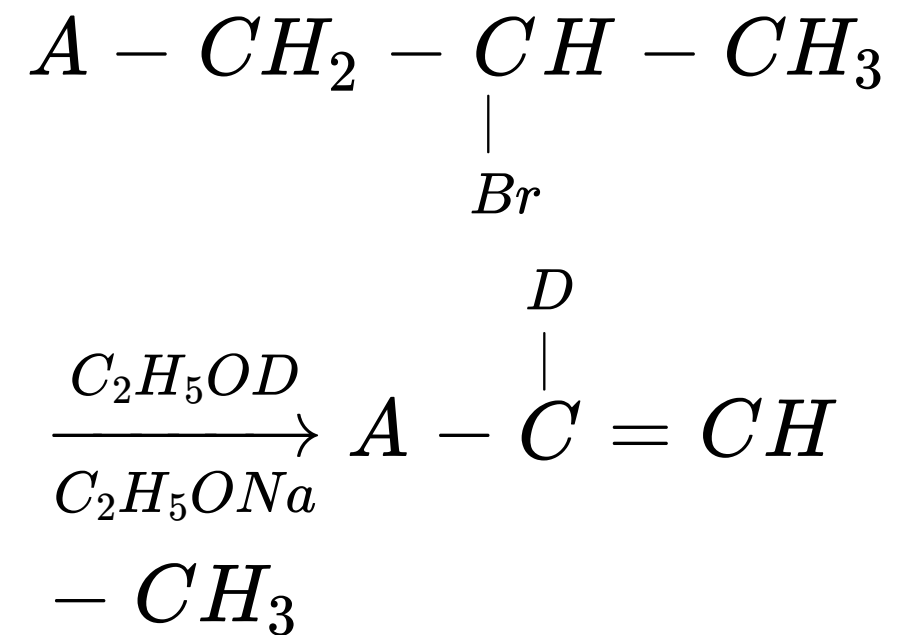
With ethoxide base most substituted alkene (I) is formed as the major product in the formation of (II)  $C_2H_5O$  takes proton from less hindered Beta -carbon hence less activation energy and greater rate of reaction although stability of product determines its content at equilibrium

Also since  $E2$  reaction is an elementary reaction in which halogen leaves in the rate determining step iodide leaves most easily and fluoride with maximum difficulty .

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Q-19 - 12662113

Consider the following reaction and the product formed



One of various product

The most likely mechanism of the above reaction is

- (A)  $E_2$
- (B)  $E_1cb$
- (C)  $E_1$
- (D)  $E_2c$

---

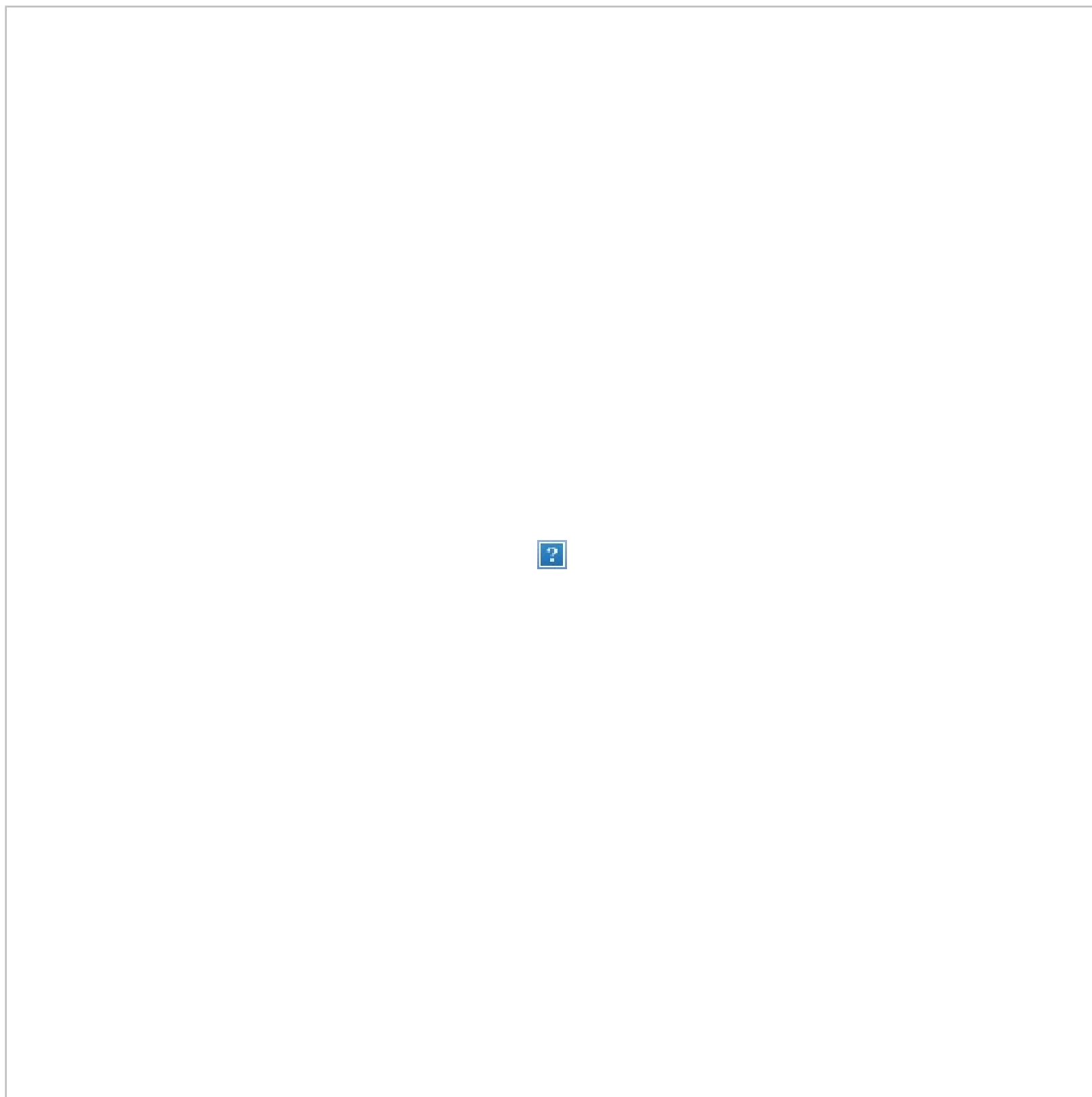
CORRECT ANSWER: B

---

SOLUTION:

Above equilibrium can explain the formation of given product hence reaction must proceed by  $E_1cb$

mechanism

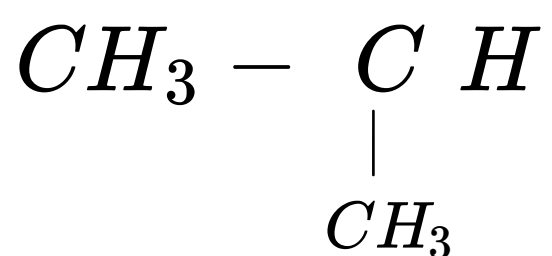


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Q-20 - 12662128

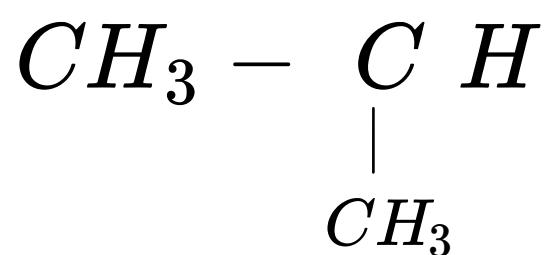
Isobutyl magnesium bromide with dry ether and absolute alcohol  
gives

(A)



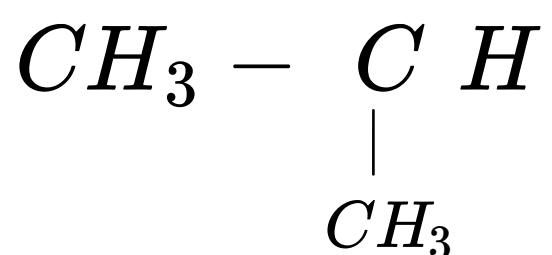
–  $CH_2OH$  and  
 $CH_3CH_2MgBr$

(B)



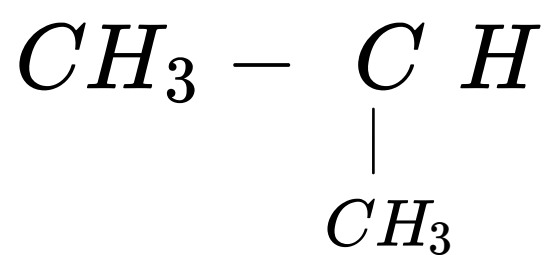
–  $CH_3OH$  and  
 $MgBr(OC_2H_5)$

(C)



–  $CH_3OH$  and  
 $Mg(OH)Br$

(D)



–  $CH_3$  and  
 $CH_3CH_2OMgBr$

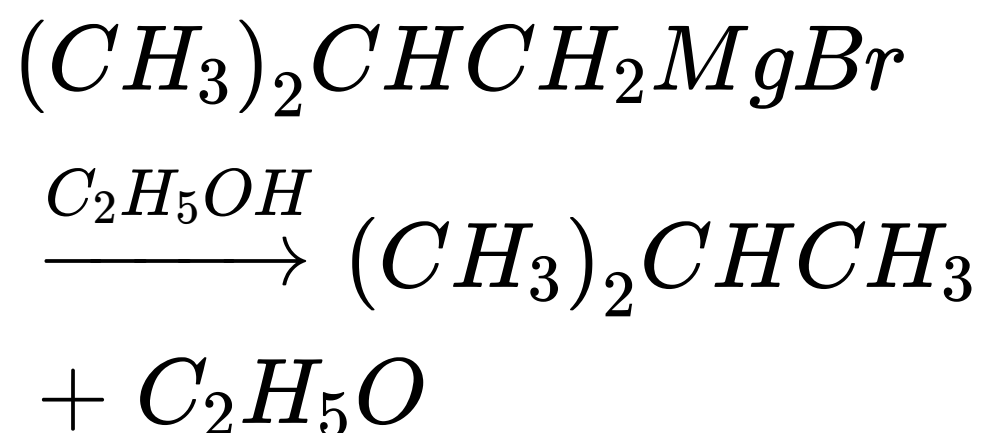
---



CORRECT ANSWER: B

---

SOLUTION:

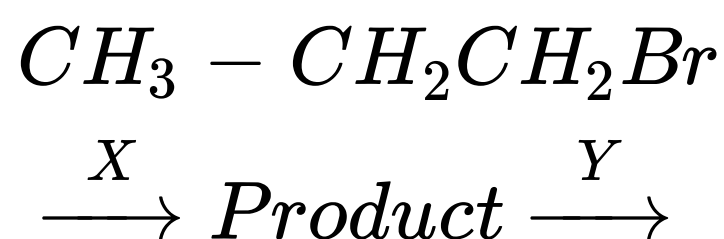


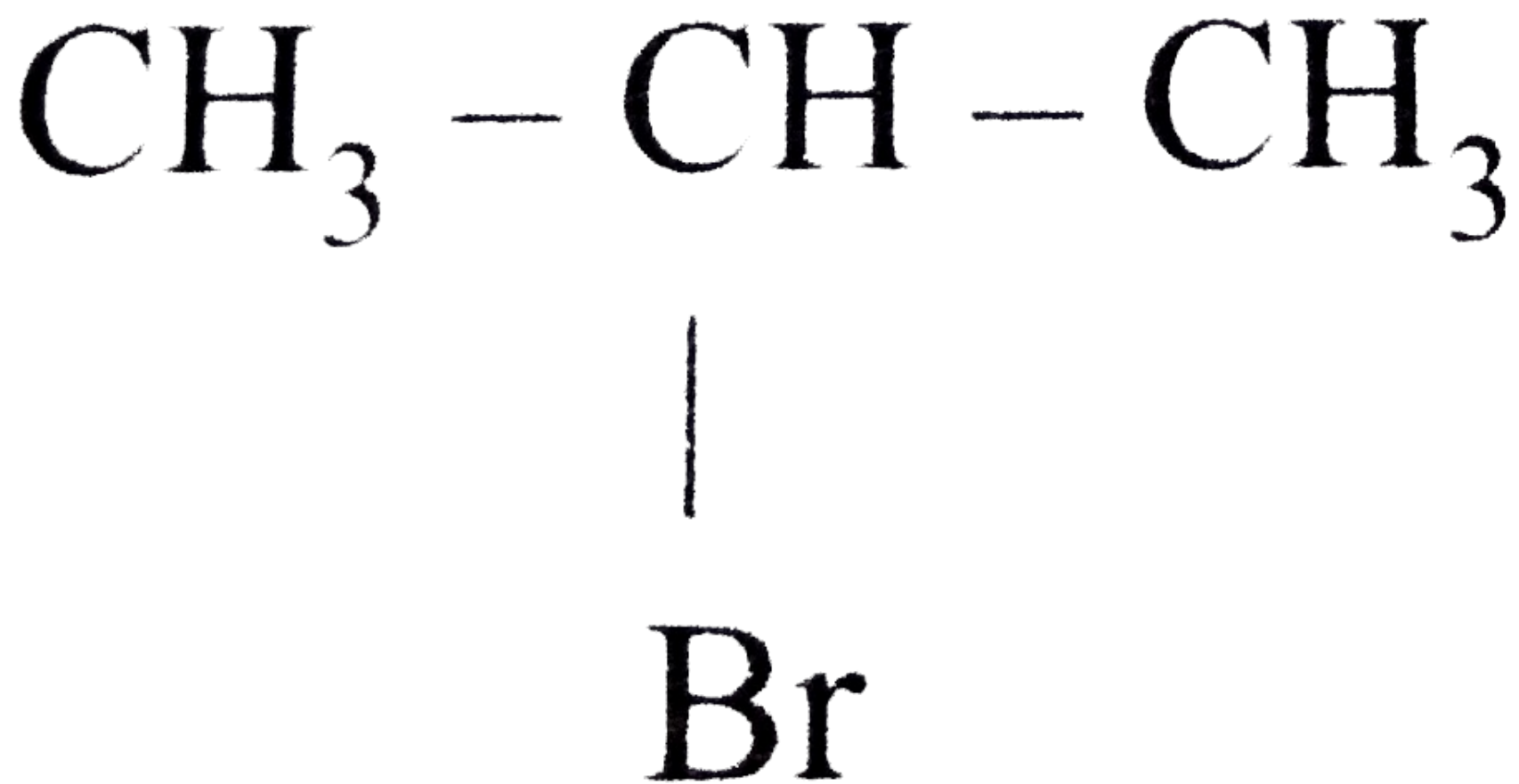
MgBr as *R* of Grignard's reagent will take proton and from alkene .

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Q-21 - 12662131

Identify the set of reagents / reaction conditions 'X' and 'Y' in the following set of transformations.





(A)  $X$  = dilute aqueous

$\text{NaOH}$ ,  $20^\circ \text{C}$ ,  $Y$

=  $\text{HBr}$  /

acetic acid  $20^\circ \text{C}$  .

(B)  $X$  = concentrated alcoholic

$\text{NaOH}$ ,  $80^\circ \text{C}$ ,  $Y$

=  $\text{HBr}$  /

acetic acid,  $20^\circ \text{C}$  .

(C)  $X$  = dilute aqueous  $\text{Na}$

$\text{OH}$ ,  $20^\circ \text{C}$ ,  $Y = \text{Br}_2$

/  $\text{CHCl}_3$ ,  $0^\circ \text{C}$

.

(D)  $X$  = concentrated alcoholic

$NaOH, 80^{\circ}C, Y$

$= Br_2 / CHCl_3$

.

---

CORRECT ANSWER: B

---

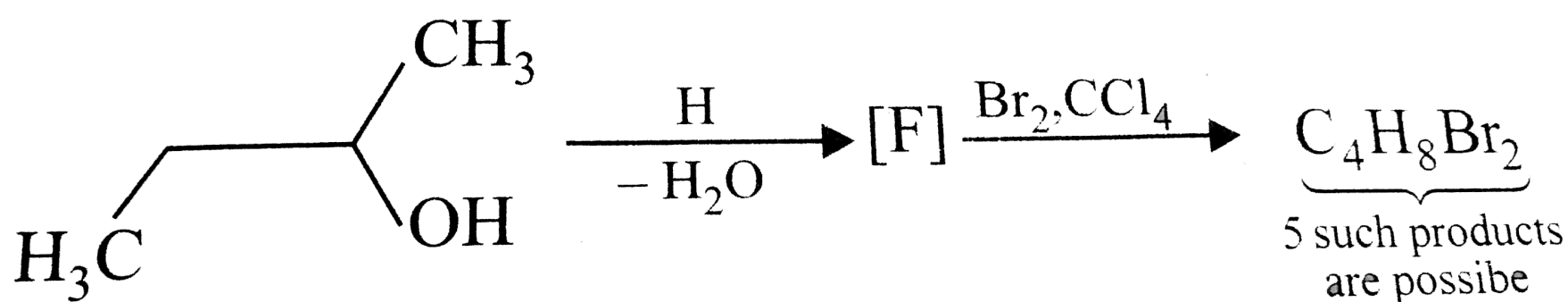
SOLUTION:

Dehydrobromination by strong base (alcNaOH) followed by Markownikoff addition of  $HBr$  Dil bas carries out substitution Strong base at high temperature favours elimination .

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Q-22 - 12662132

How many structures for  $F$  are possible



(A) 2

(B) 5

(C) 6

(D) 3

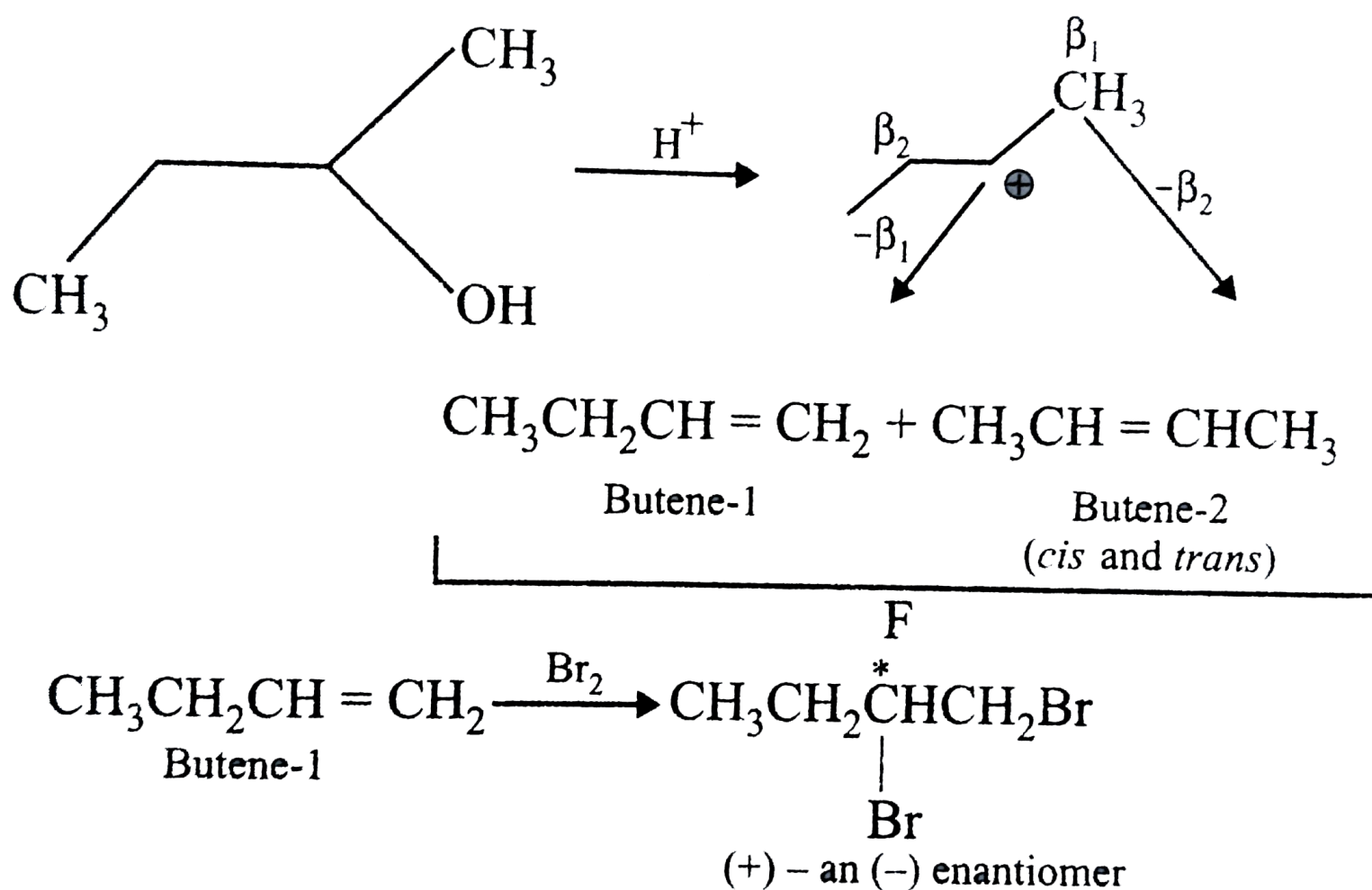
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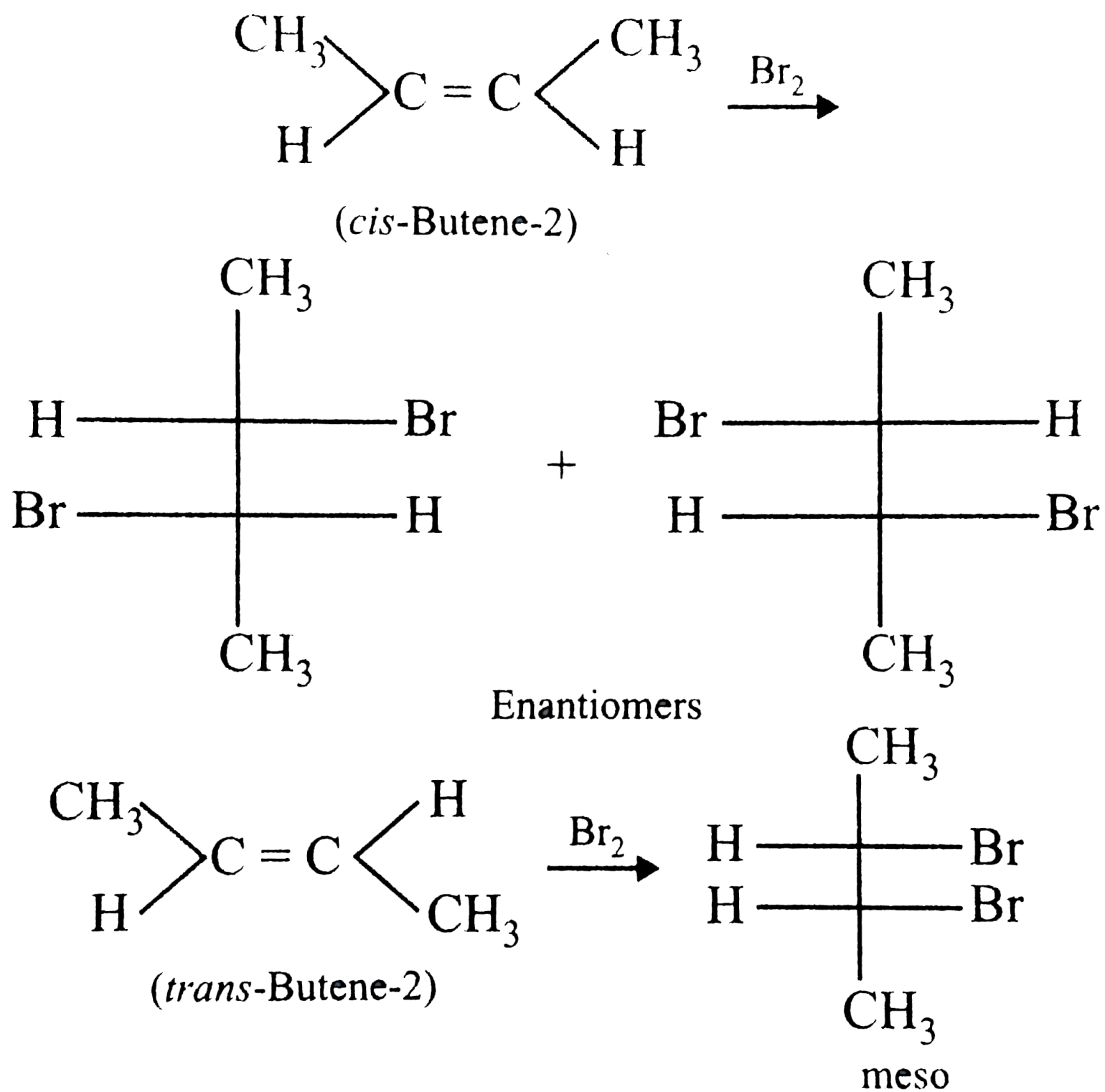
CORRECT ANSWER: D

---

SOLUTION:

So F can have three possible structures



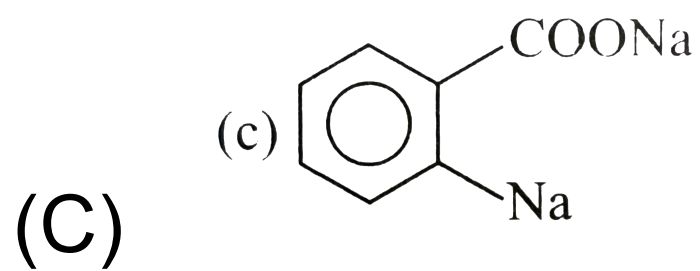
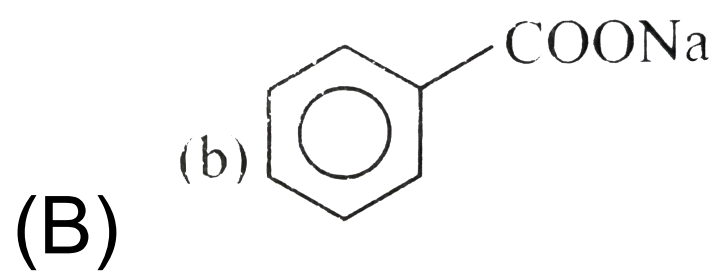
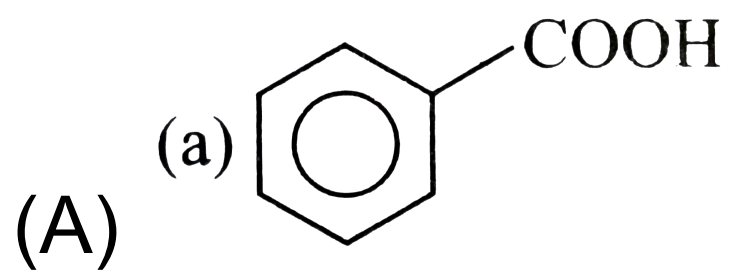


So F can have three possible structures.

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Q-23 - 12662147

Toluene reacts with excess of  $\text{Cl}_2$  in presence of sunlight to give a product which on hydrolysis followed by reaction with  $\text{NaOH}$  gives .



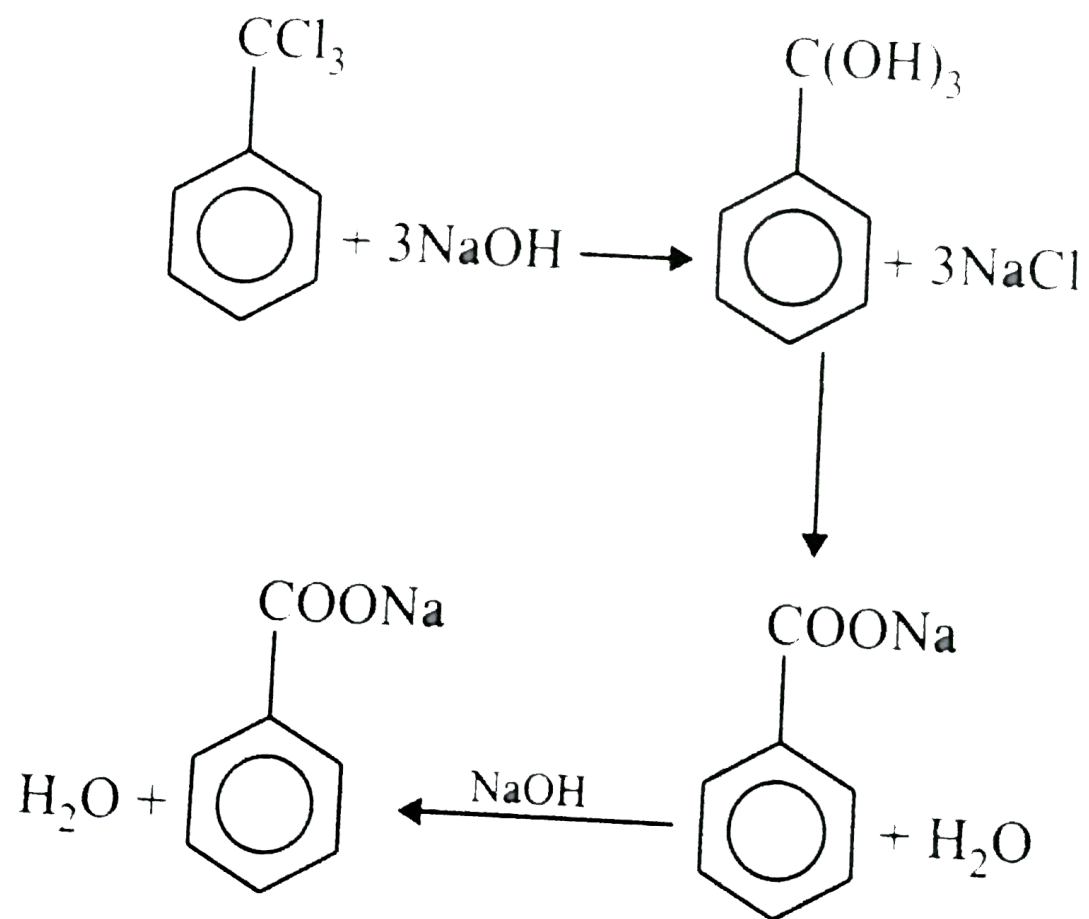
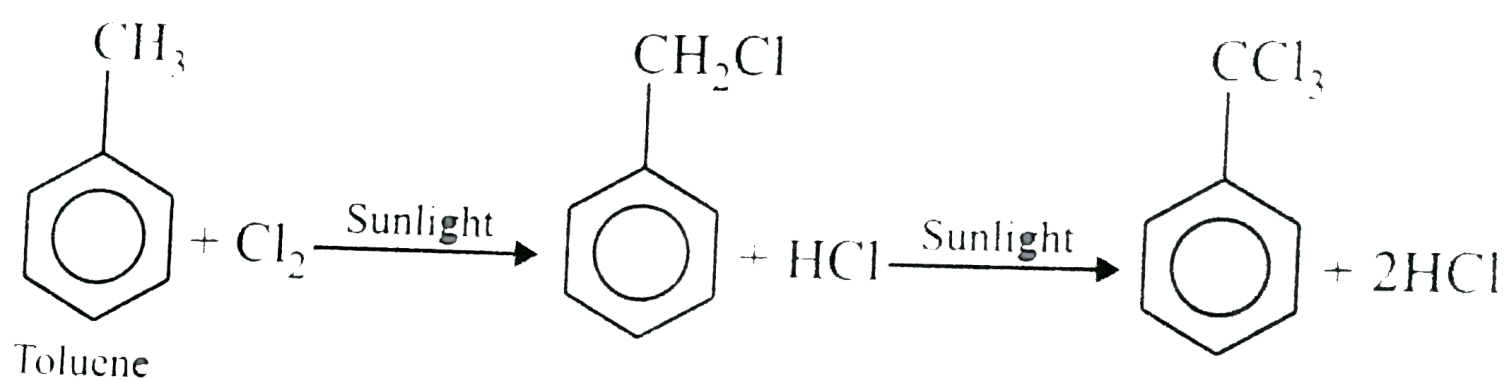
(D) None of these

---

**CORRECT ANSWER: B**

---

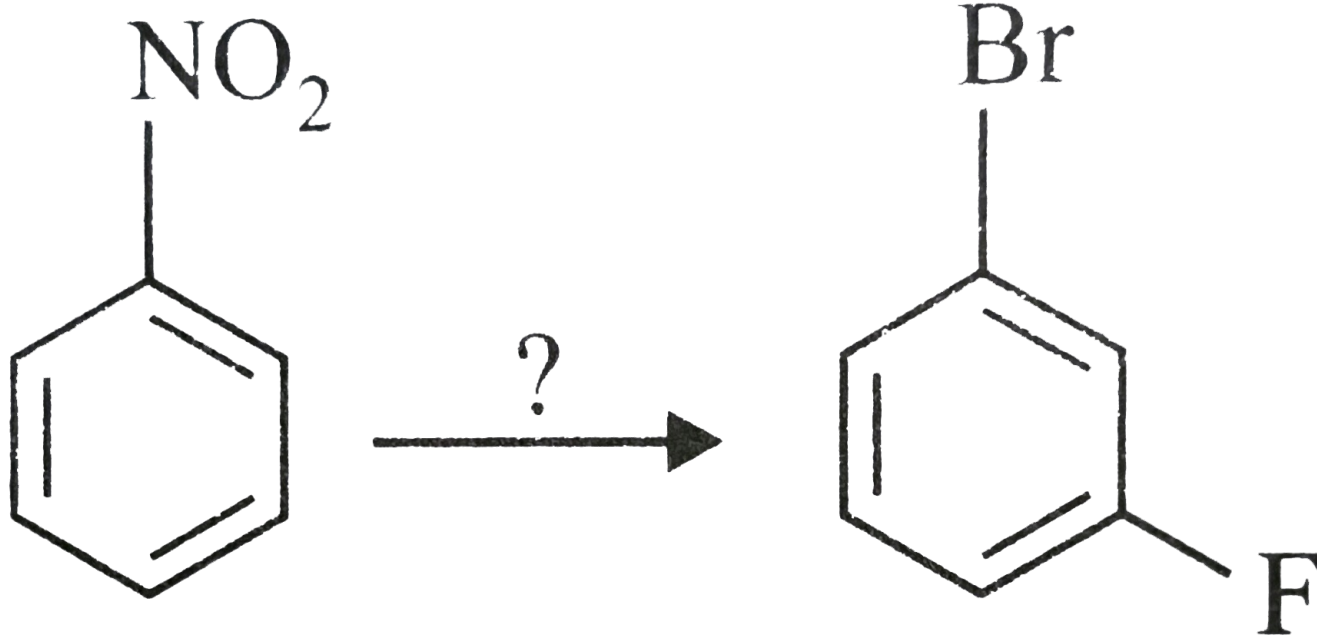
**SOLUTION:**



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Q-24 - 12662148

Which of the following will best convert nitobenzene into 3-fluorobromobenzene



(A)

$F_2 / AlCl_3, Zn / HCl,$   
 $NaNO_2 / HCl$   
 $- 0^\circ C, CuBr$

(B)

$SnCl_2 / HCl, Br$   
 $/ FeBr_2, NaNO_2$   
 $/ HBF_4 - 0^\circ C, heat$

(C)

$SnCl_2 / HCl, NaNO_2$   
 $/ HBF_4 - 0^\circ C, heat,$   
 $Br_2 / FeBr_3$



▪  
(D)

*Br<sub>2</sub> / FeBr<sub>3</sub>SnCl<sub>2</sub>*

*/ HCl, NaNO<sub>2</sub>*

*/ HBF<sub>4</sub>) ° C, heat*

▪

---

**CORRECT ANSWER: D**

---

**SOLUTION:**



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Q-25 - 12662160

An aromatic compound of molecular formula  $C_6H_4Br_2$  was nitrated then three isomers of formula  $C_6H_3Br_2NO_2$  were obtained. The original compound is .

(A) o-dibromobenzene

(B) m-dibromobenzene

(C) p-dibromobenzene

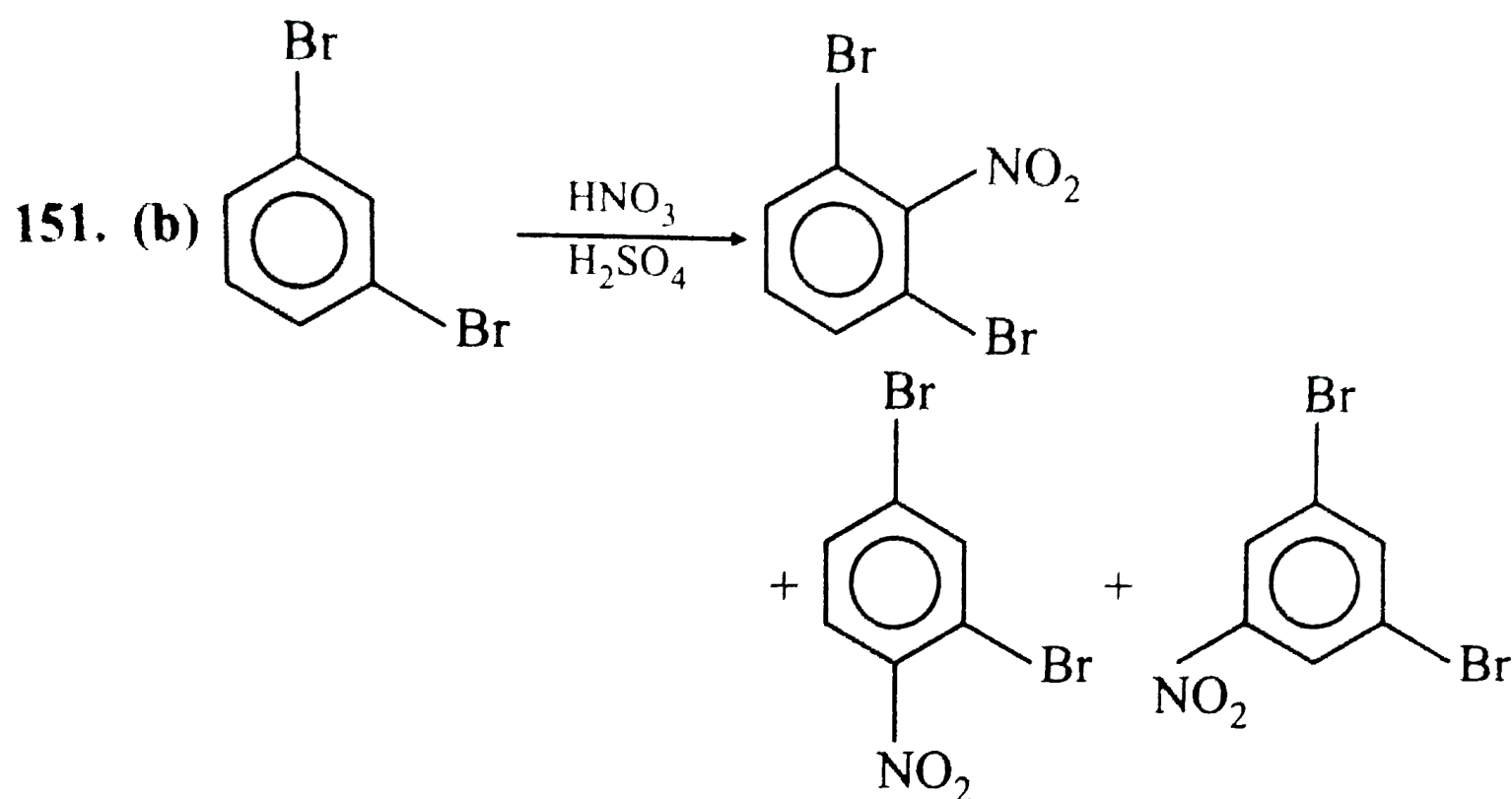
(D) Both a and c

---

**CORRECT ANSWER: B**

---

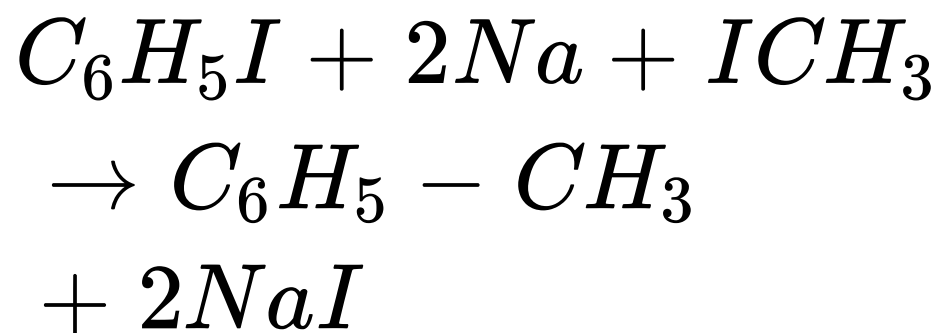
**SOLUTION:**



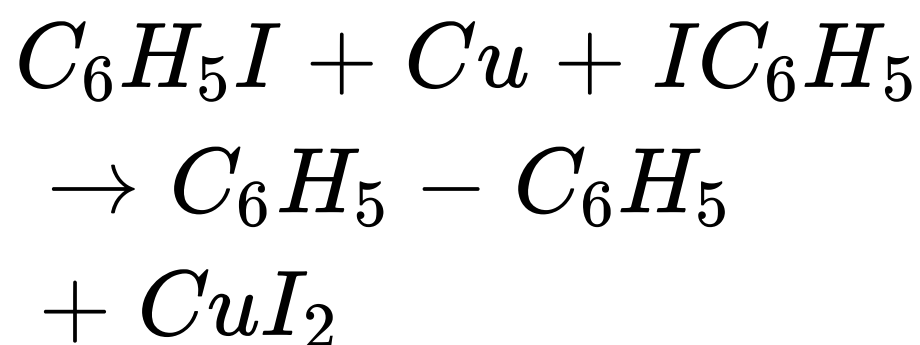
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Which of the following is Wurtz-Fitting reaction?

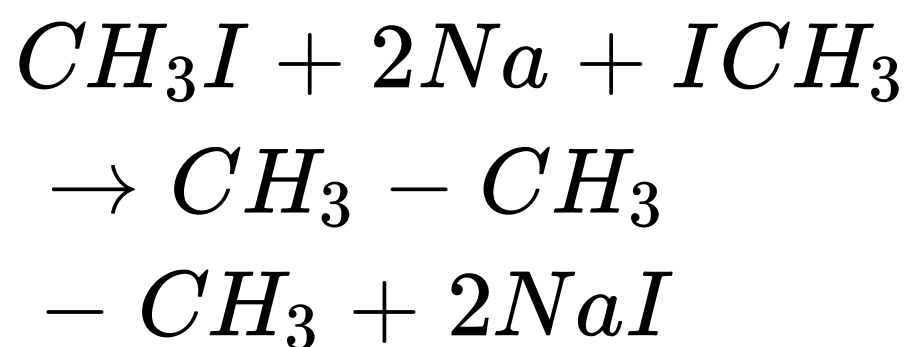
(A)



(B)



(C)



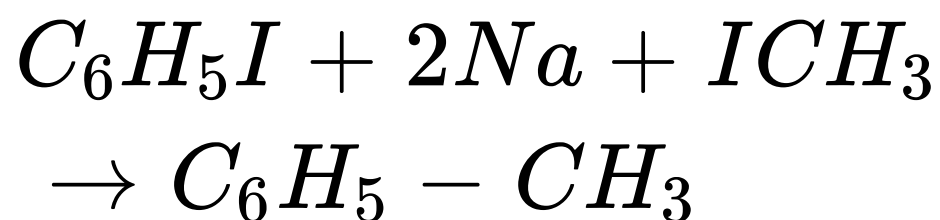
(D) none of the above

---

CORRECT ANSWER: A

---

SOLUTION:

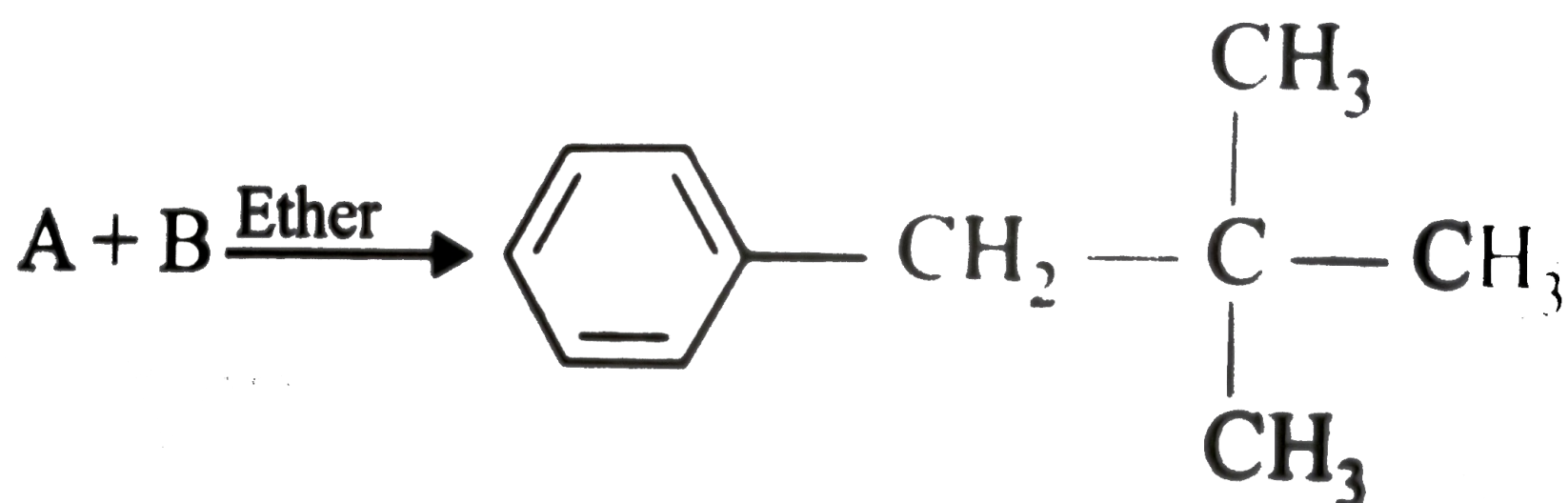


This reaction is a Wurtz -Fitting reaction .

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Q-27 - 12662163

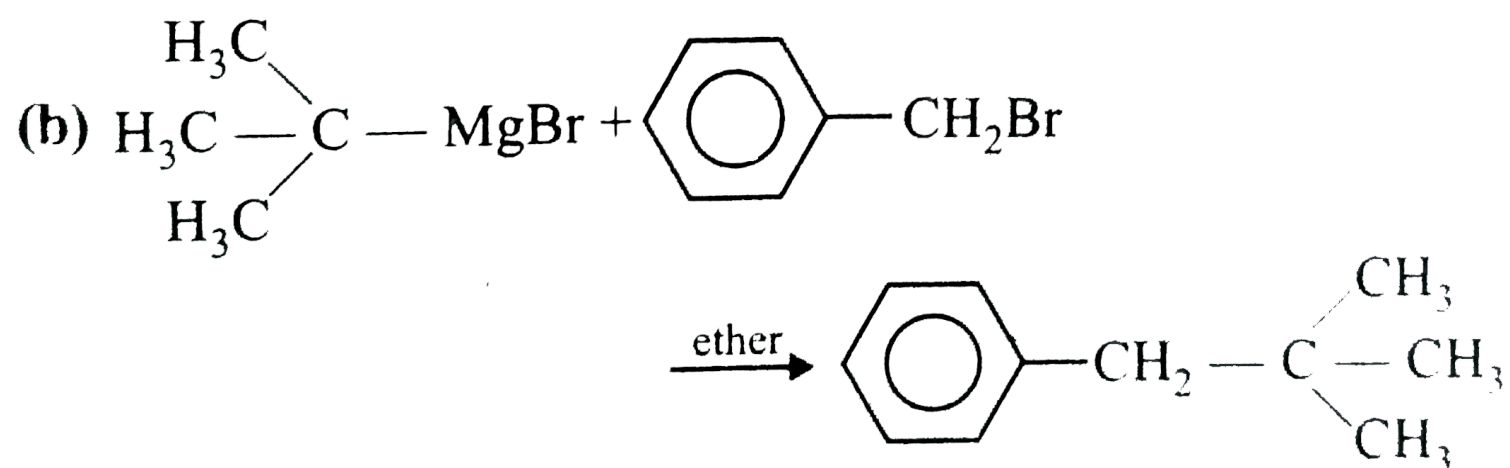
The best yield of given product can be obtained by using which set of reactants *A* and *B* respectively



- (A)  $\text{PhLi} + \text{Neopentylchloride}$
  - (B)  $\text{t-Bu-MgBr} + \text{Benzylbromide}$
  - (C)  $\text{PhMgBr} + \text{Neopentyl bromide}$
  - (D)  $\text{Benzylchloride} + \text{t-Butylchloride}$
-

CORRECT ANSWER: B

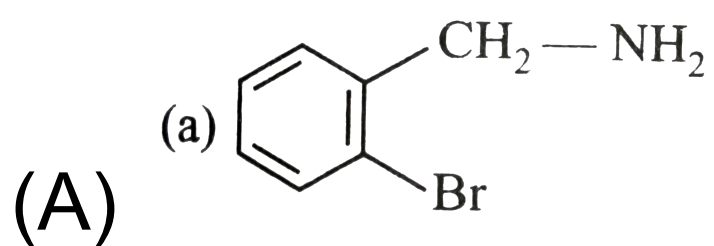
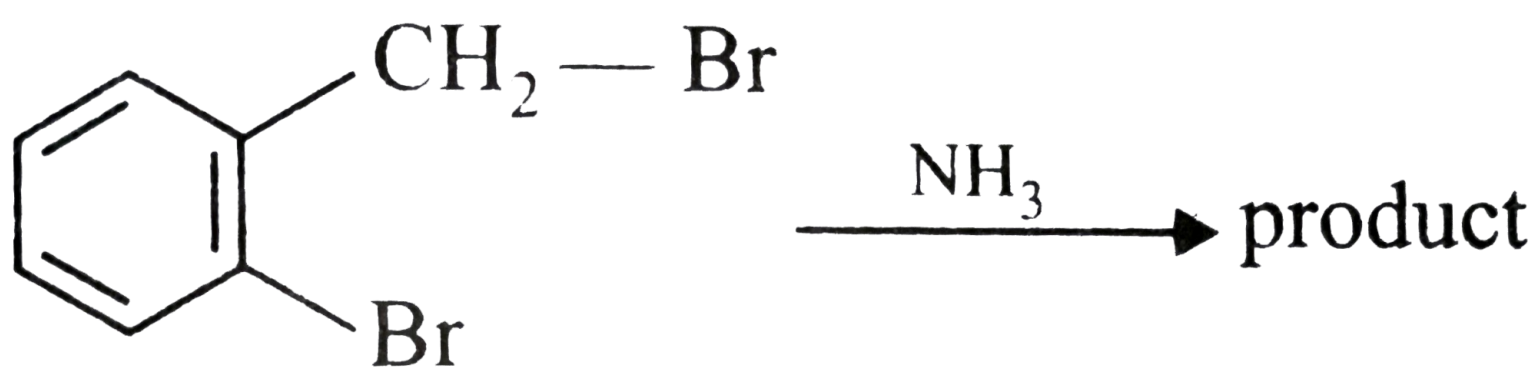
SOLUTION:

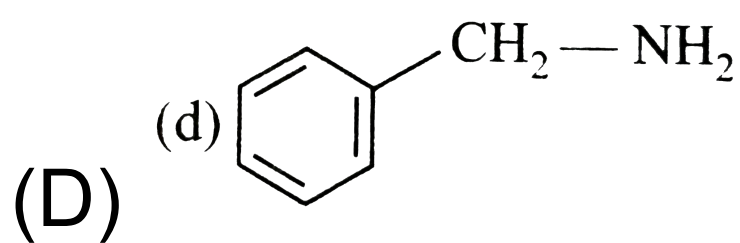
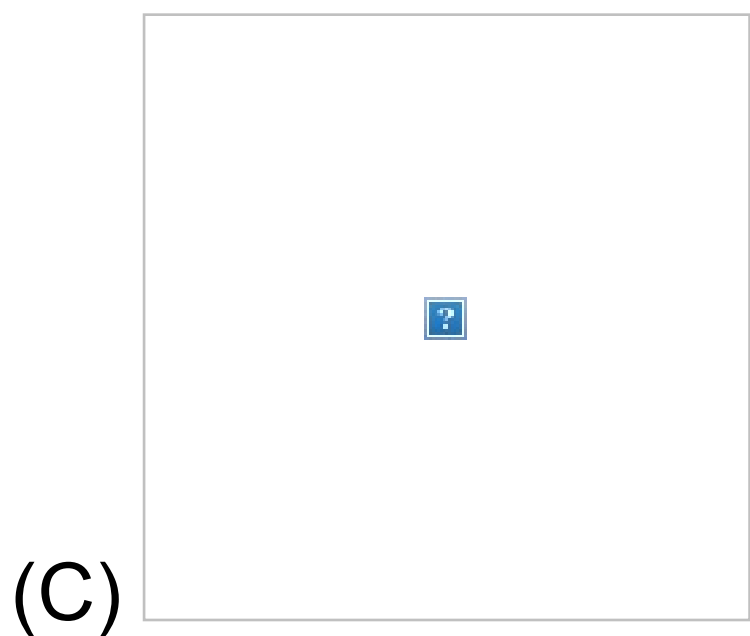
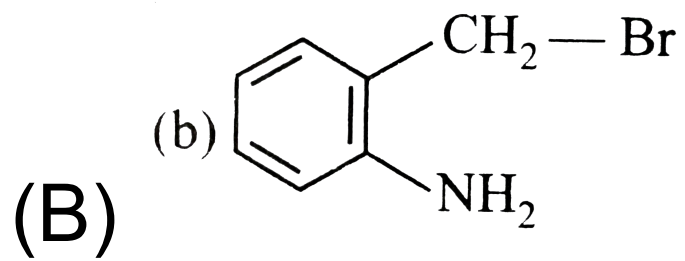


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Q-28 - 12662164

What is the major product obtained in the following





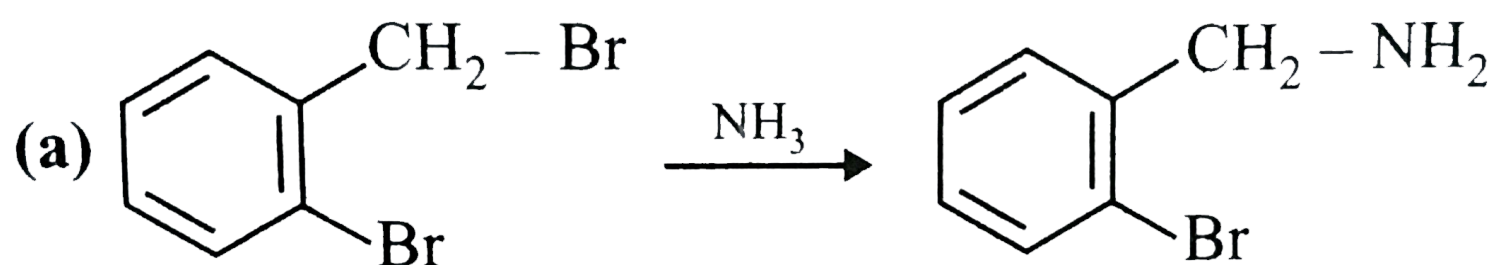
---

CORRECT ANSWER: A

---

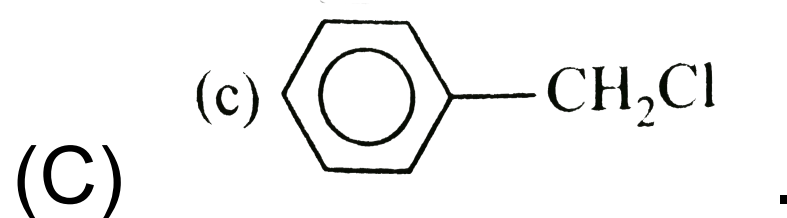
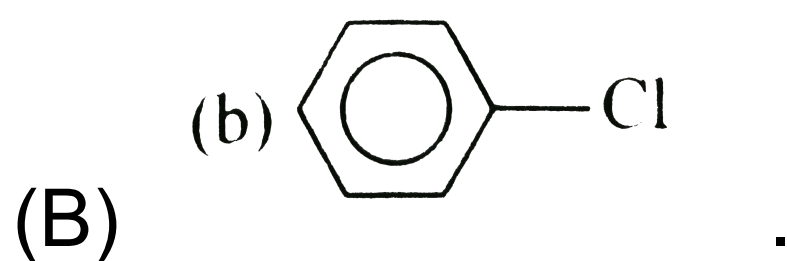
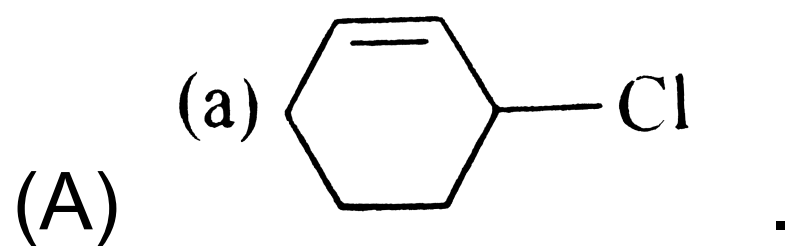
SOLUTION:

Beacause aromatic halides do not give  $S_N$  reaction in normal condition



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Which will give white ppt. with  $AgNO_3$  ?



(D) Both (a) and (c)

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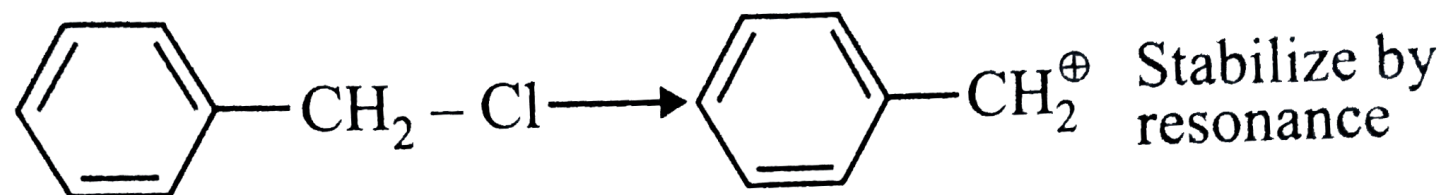
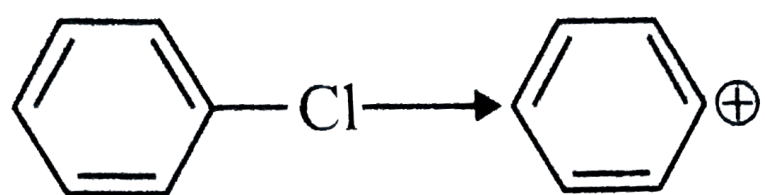
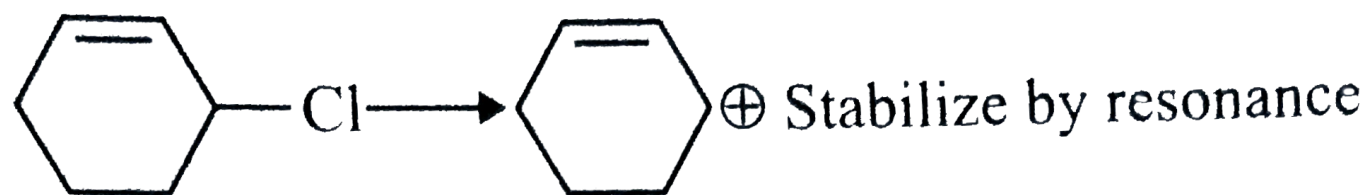
CORRECT ANSWER: D

---

SOLUTION:

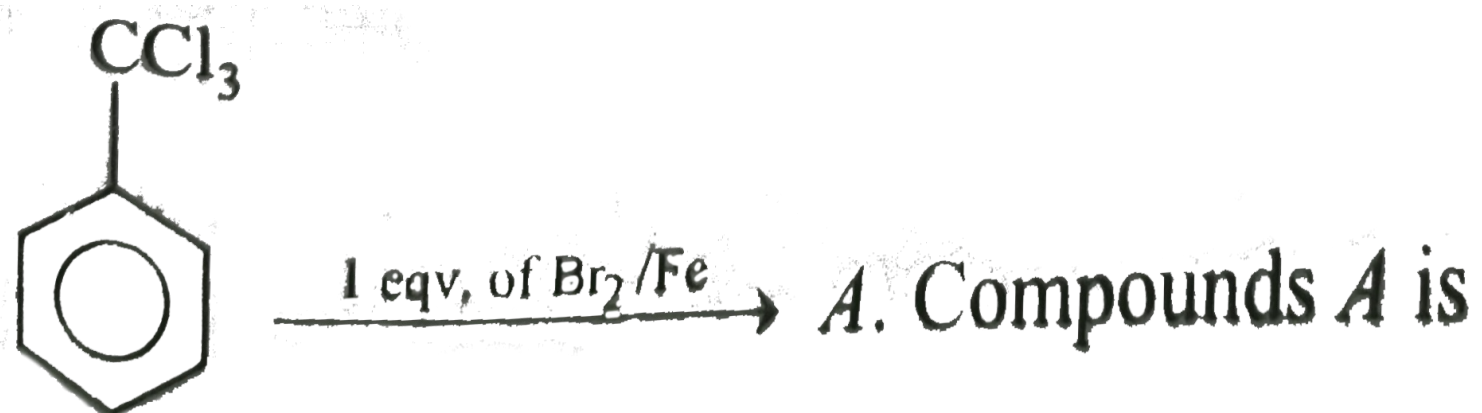
Those organic halide give ppt with  $AgNO_3$  when forms stable carbocation



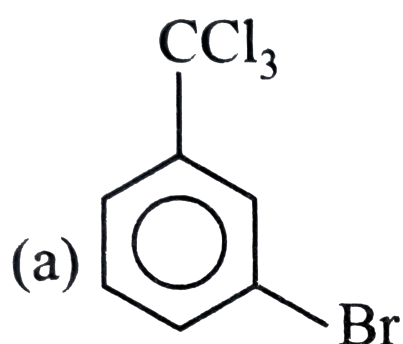


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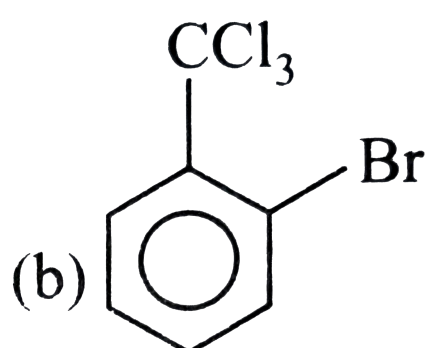
Q-30 - 12662171

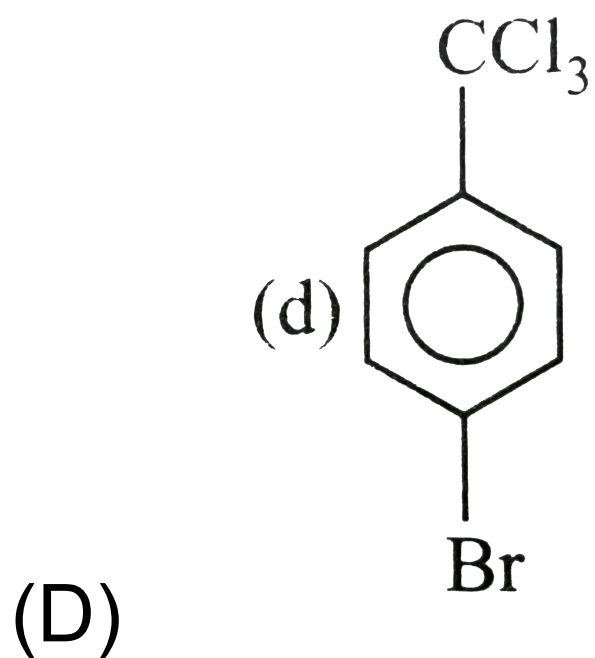
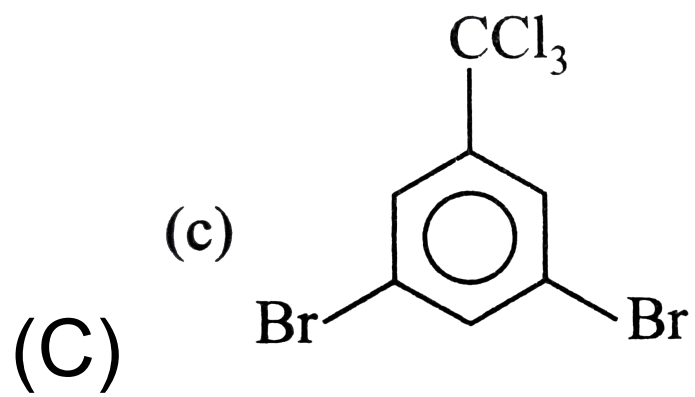


(A)



(B)





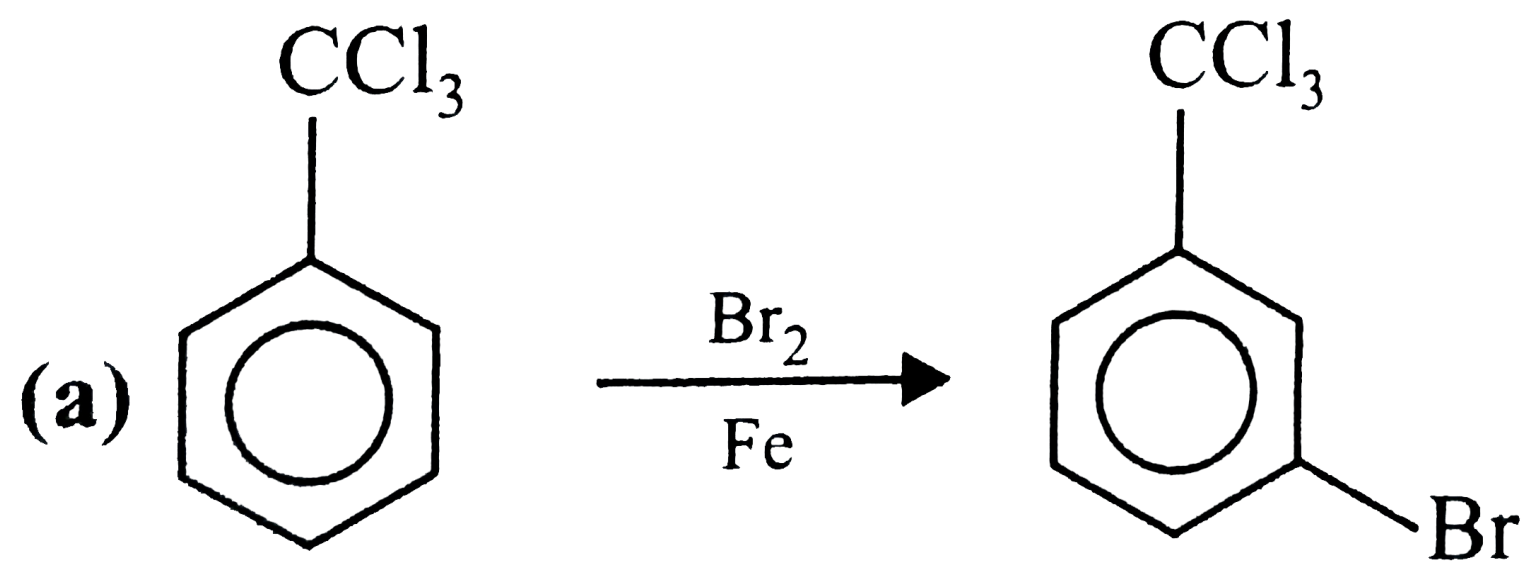
---

CORRECT ANSWER: A

---

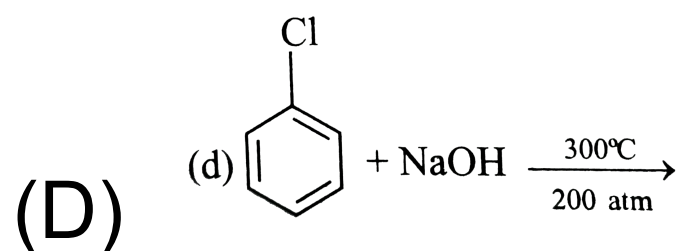
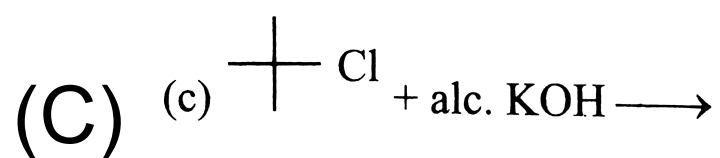
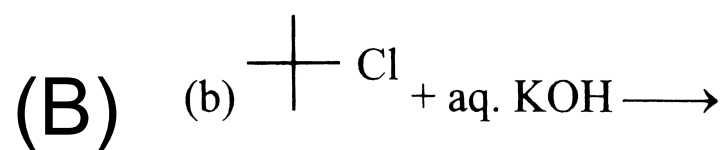
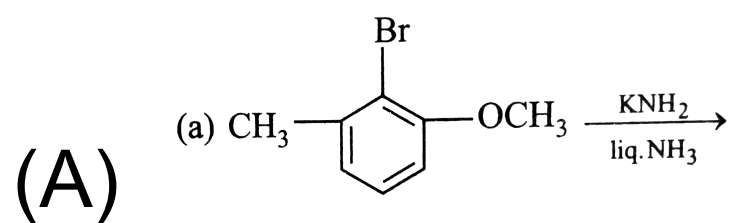
SOLUTION:

As  $-CCl_3$  is a m-directing group



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Which of the following reaction does not take place ?



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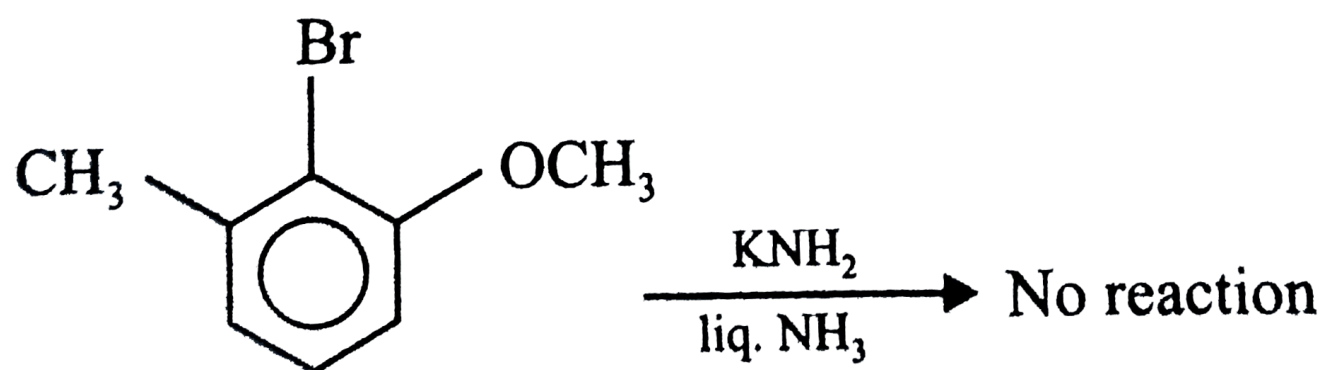
CORRECT ANSWER: A

---

SOLUTION:

Ary halides having at least one hydrogen in ortho position undergo nucleophilic substitution with a very strong base like  $\text{KNH}_2$  in Liquid ammonia. This reaction proceeds via benzyne (aryne) intermediate. When aryl halides having no hydrogen ortho to the halogen do not react.

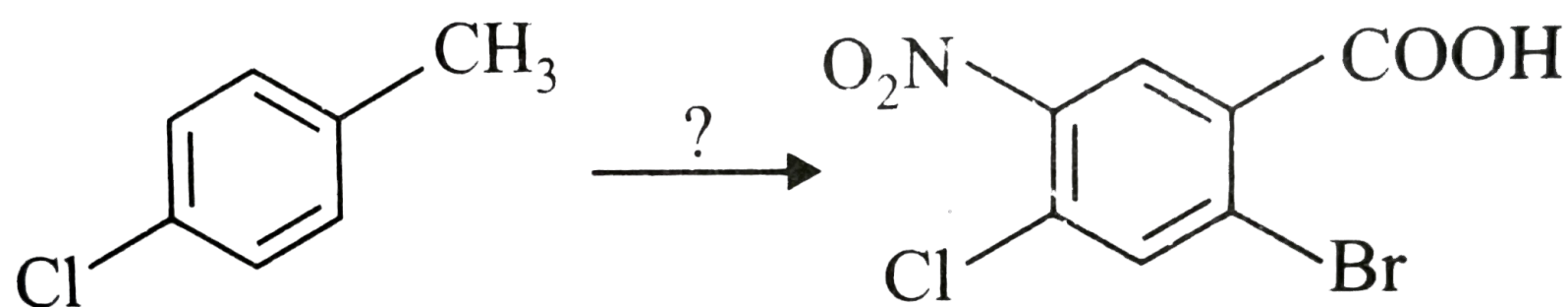
under the same conditions



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Q-32 - 12662180

Which of the following procedures would be best for achieving the following reaction



(A) i  $\text{NBS}$  in  $\text{CCl}_4$  and heat, ii  $\text{NaNO}_2$  iii  $\text{KMnO}_4$

and heat

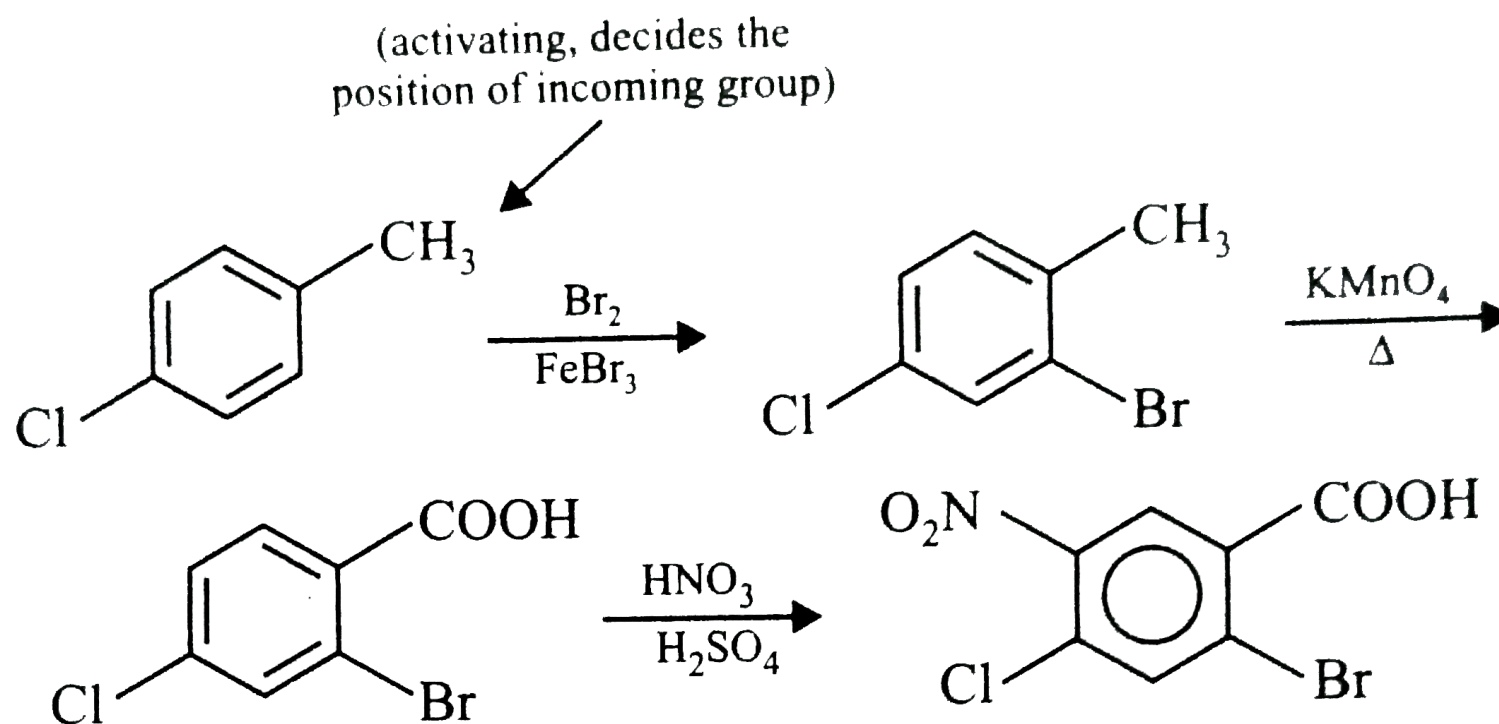
(B)  $\text{KMnO}_4$  and heat ii  $\text{Br}_2 + \text{FeBr}_3$  iii  $\text{HNO}_3$  and  $\text{H}_2\text{SO}_4$

(C) i *NBS* in  $CCl_4$  and heat ii  $KMnO_4$  and heat iii  $HNO_3$  and  $H_2SO_4$

(D)  $Br_2 + FeBr_3$  (ii)  $KMnO_4$  and heat (iii)  $HNO_3$  and  $H_2SO_4$  .

CORRECT ANSWER: D

SOLUTION:



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Q-33 - 12662217

2-chlorobutane obtained by chlorination of butane will be .

(A) meso -form

(B) d-form

(C) racemic form

(D) l-form

---

**CORRECT ANSWER: C**

---

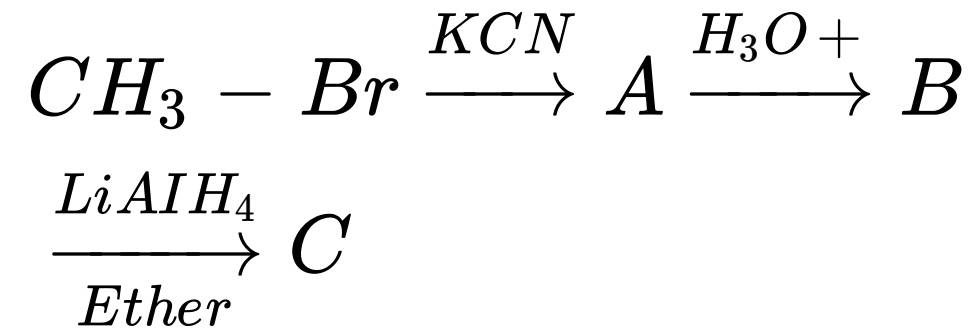
**SOLUTION:**

An optically inactive compound forming optically active compound during a reaction always gives racemic mixture .

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Q-34 - 12662228

In the following sequence of reaction



the end product is .

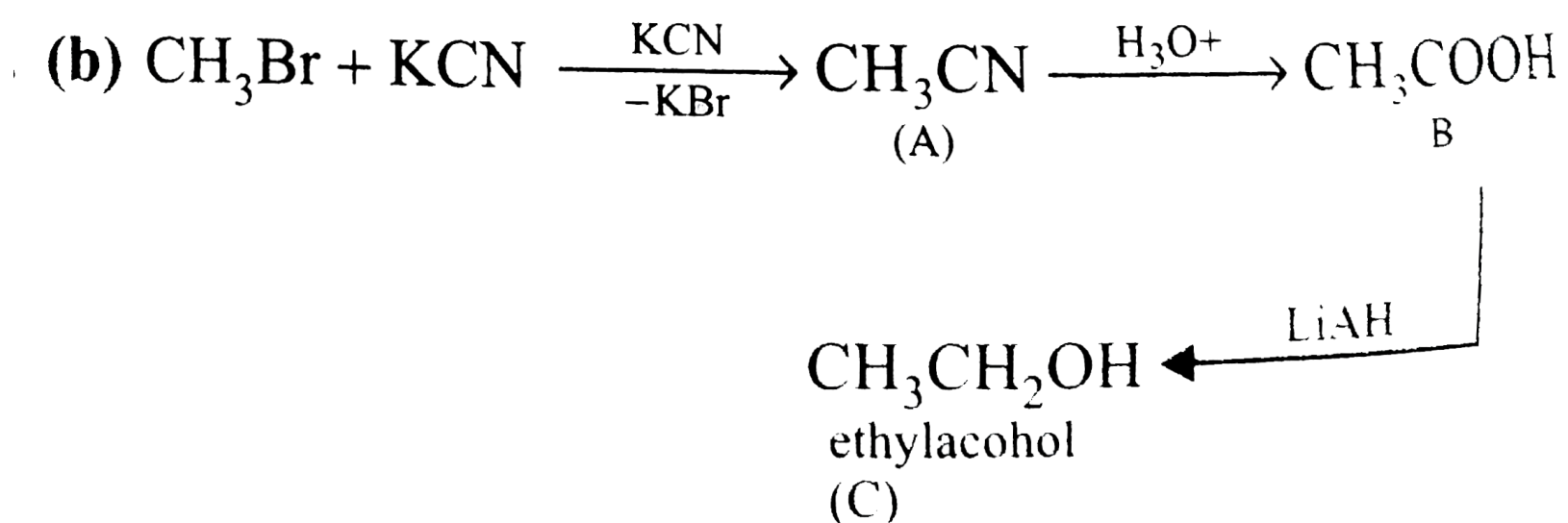
- (A) acetaldehyde
- (B) ethylalcohol
- (C) acetone
- (D) methane

---

**CORRECT ANSWER: B**

---

**SOLUTION:**



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In an  $SN_1$  reaction on chiral centers there is .

(A) 100 % retention

(B) 100 % inversion

(C) 100 % racemization

(D) inversion more than retention leading to partial racemization .

---

CORRECT ANSWER: D

---

SOLUTION:

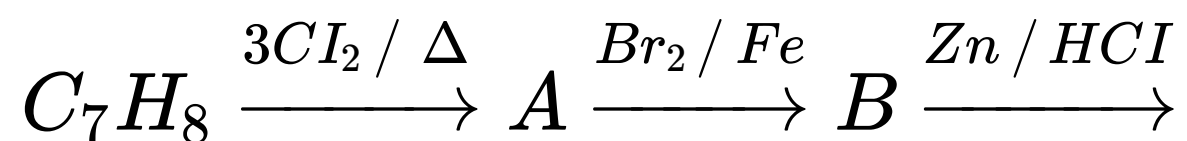
$SN_1$  reactions give a racemic mixture with slight predominance of that isomer which corresponds to inversion because  $SN_1$  also depends upon the degree of shielding of the front side of the reacting carbon .

---



Q-36 - 12662234

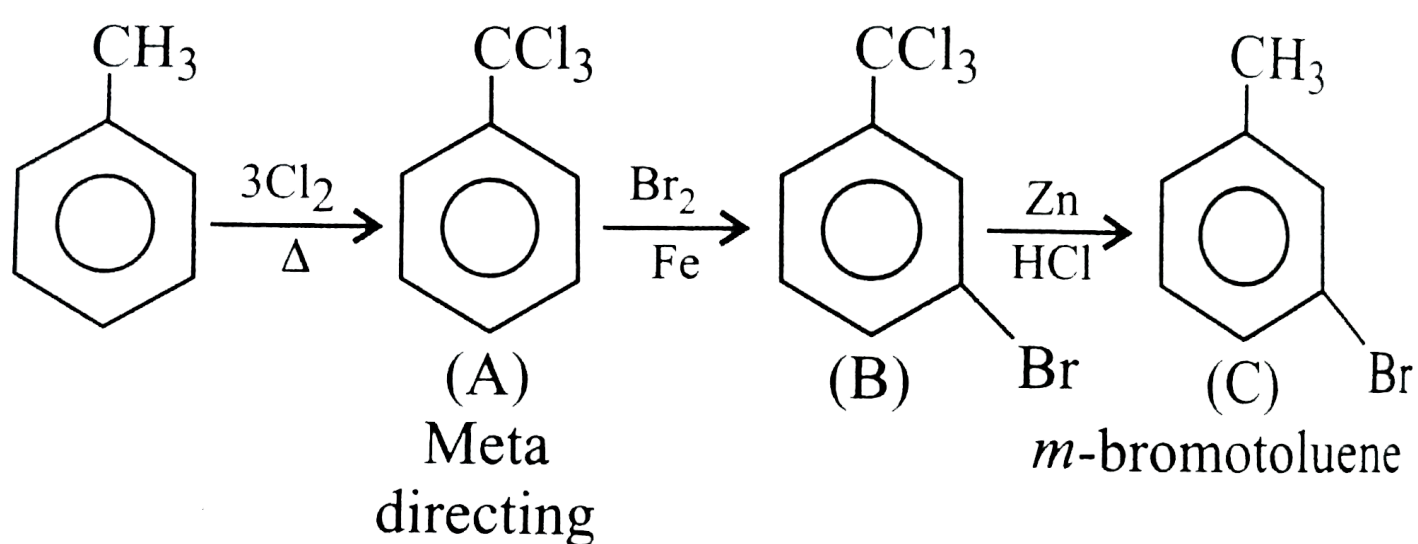
The compound  $C_7H_8$  undergoes the following reactions



The product 'C' is .

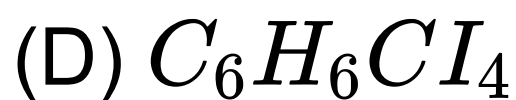
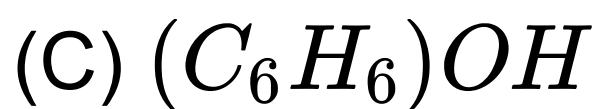
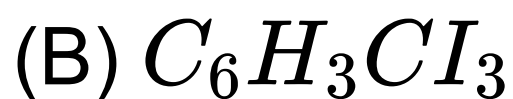
CORRECT ANSWER: A

SOLUTION:



Q-37 - 12662249

$C_6H_6Cl_6$  on treatment with alcoholic  $KOH$  yields .

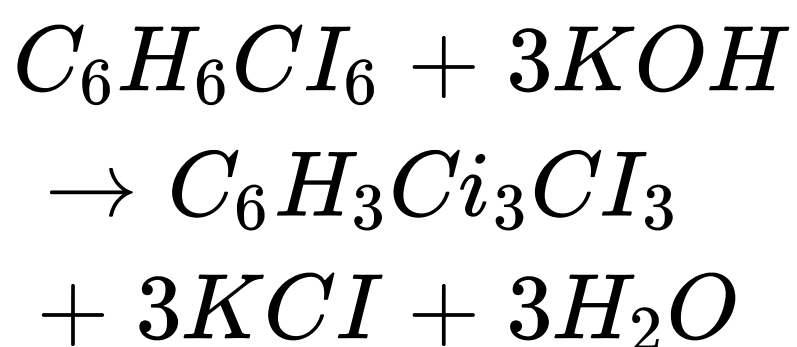


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CORRECT ANSWER: B

---

SOLUTION:

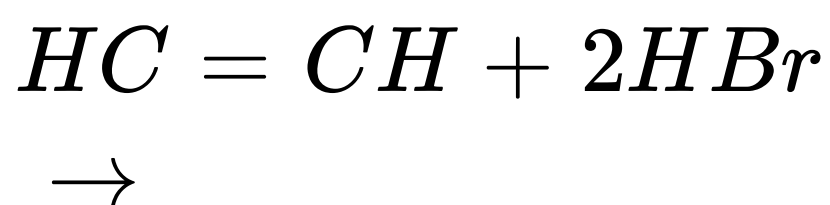


Thus benzene hexahalides decompose when heated with alc  $KOH$  and yield trichloro benzene .

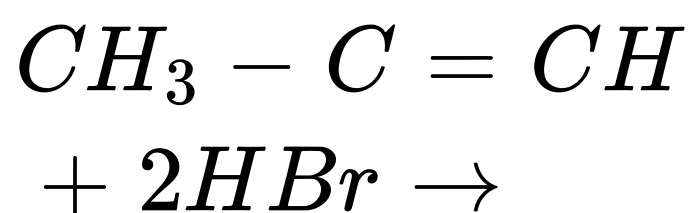
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Which of the following reactions will yield 2, 2 – dibromopropane ?

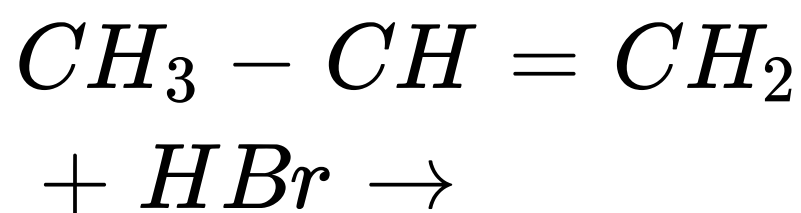
(A)



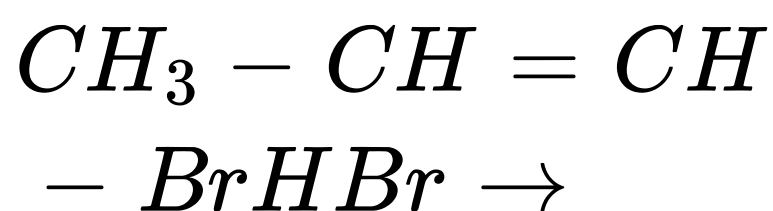
(B)



(C)

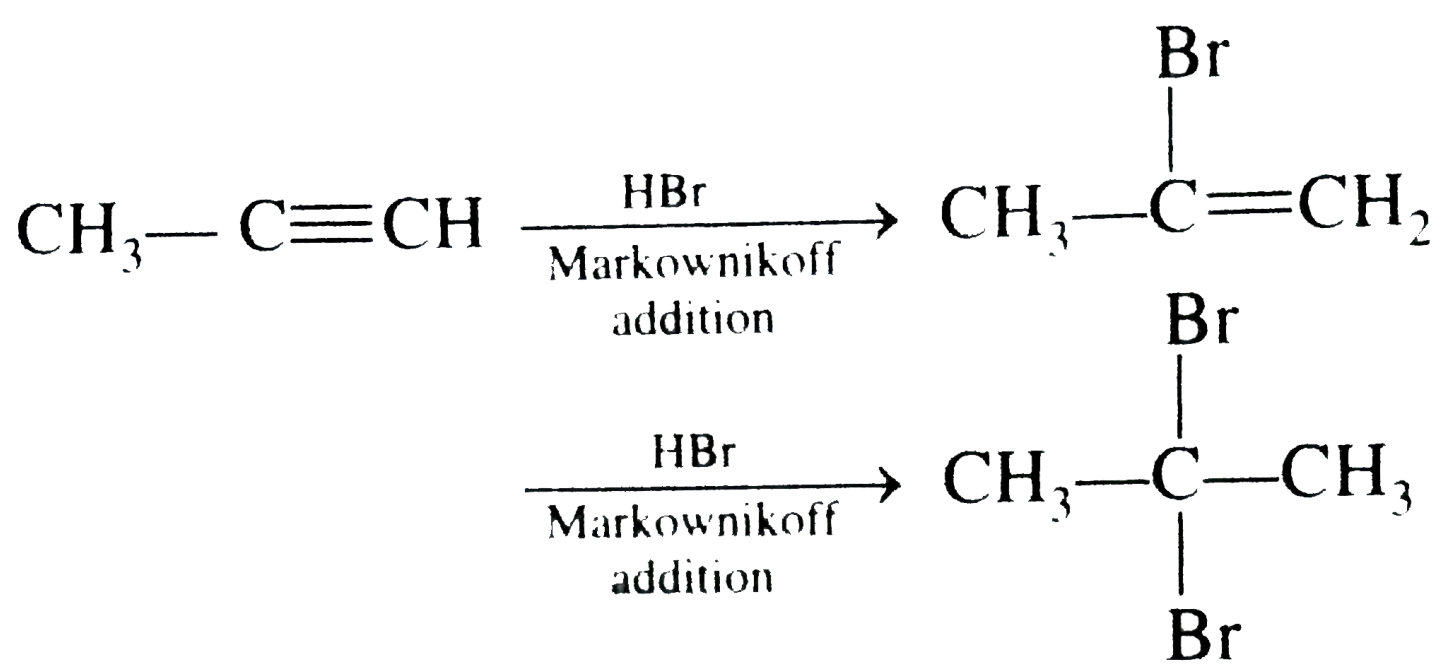


(D)



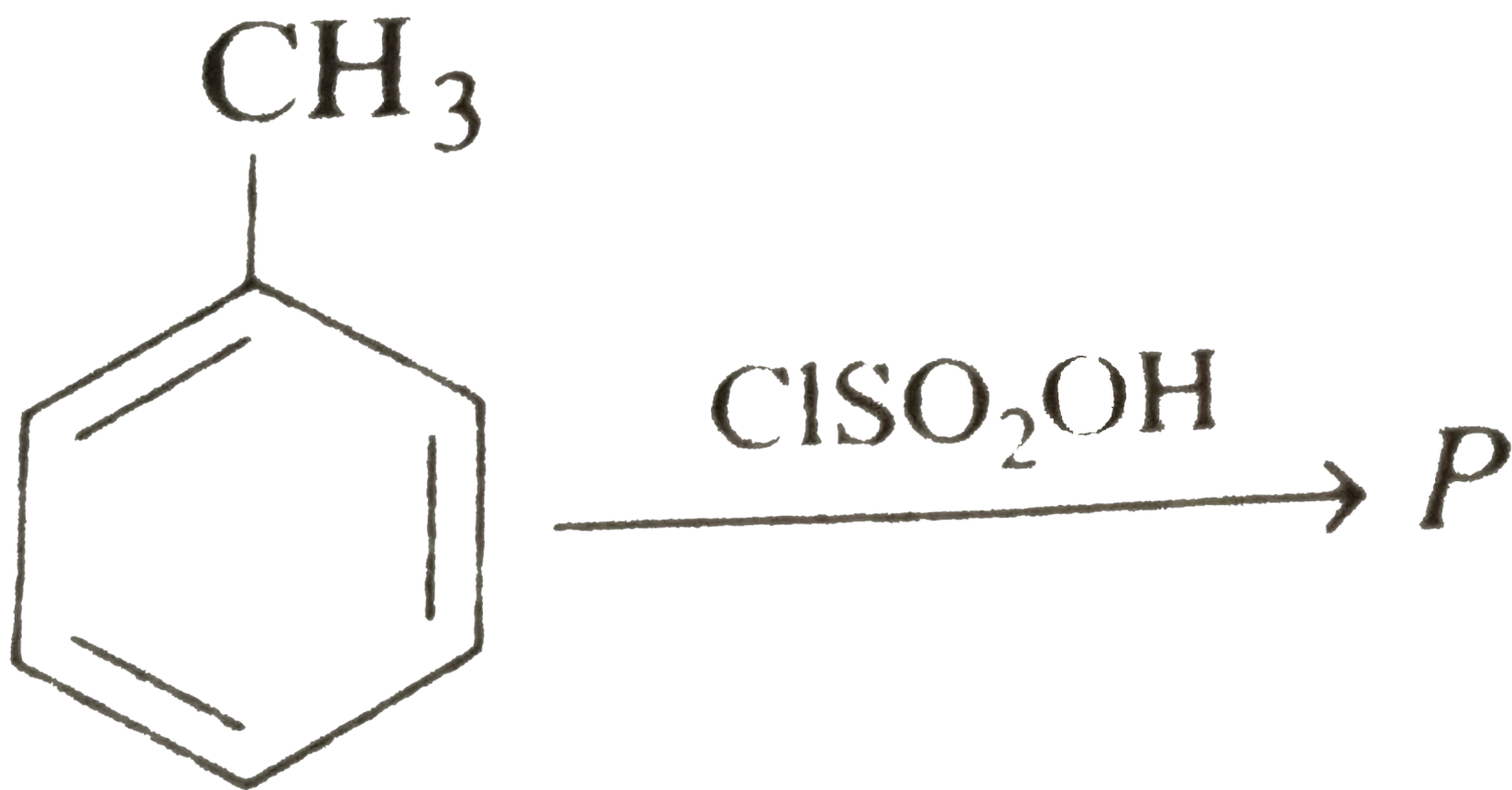
CORRECT ANSWER: B

SOLUTION:



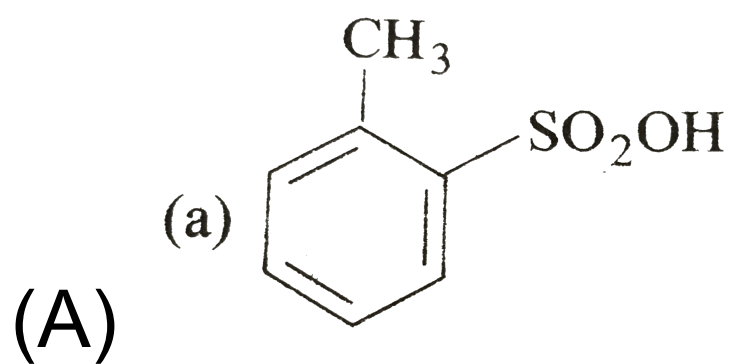
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Q-39 - 20000583

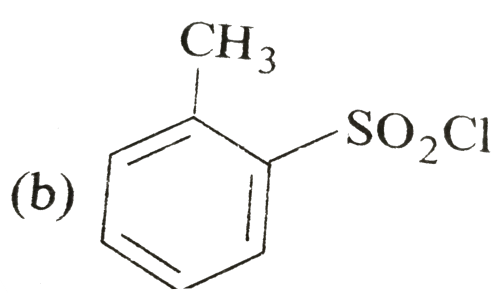


(Major

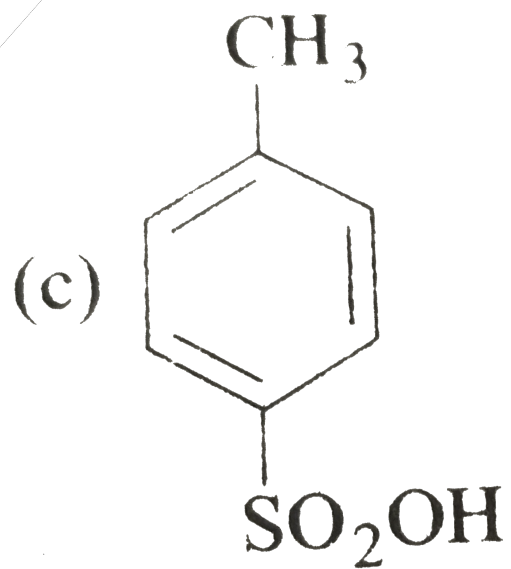
product)



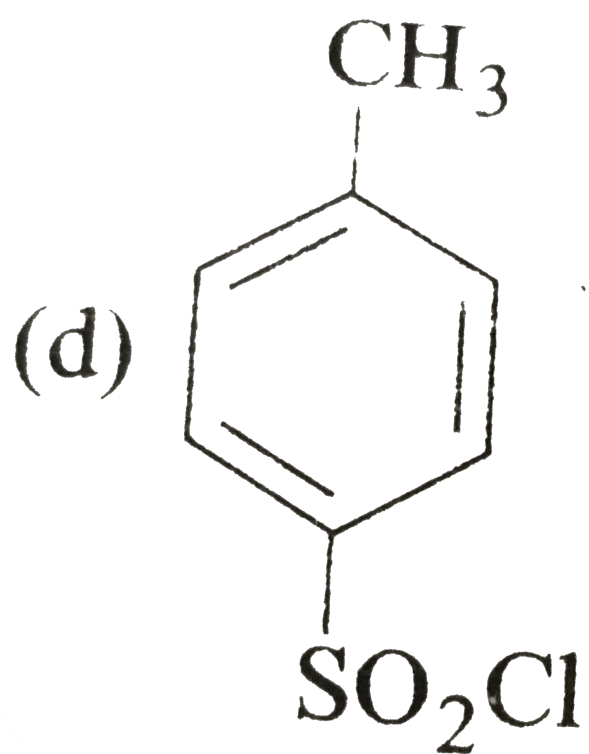
(B)



(C)

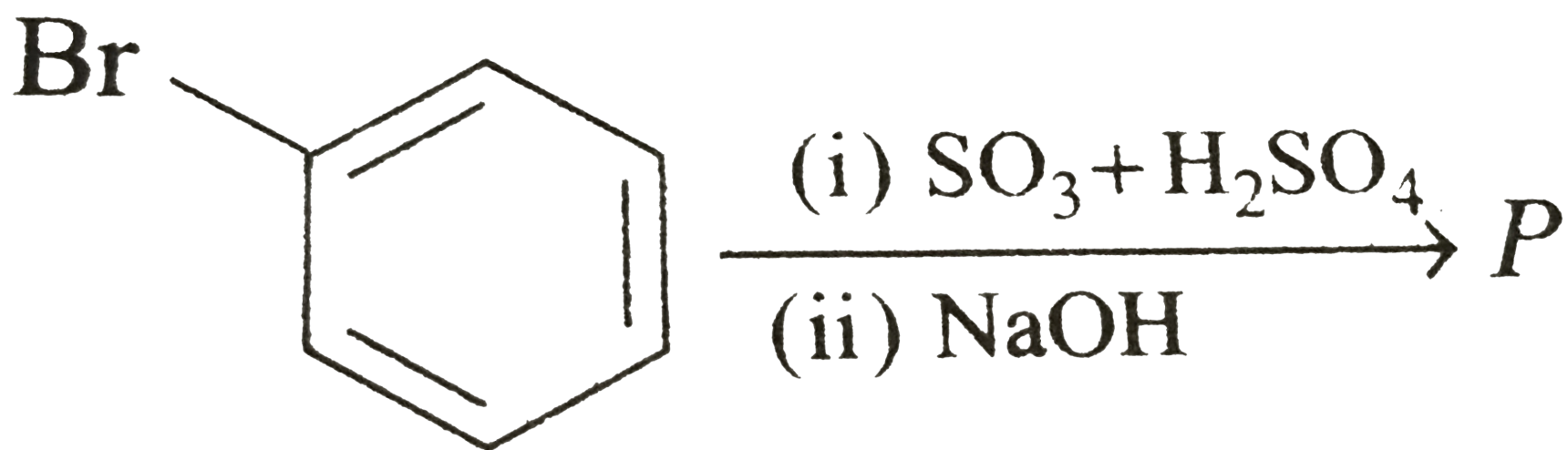


(D)



CORRECT ANSWER: C

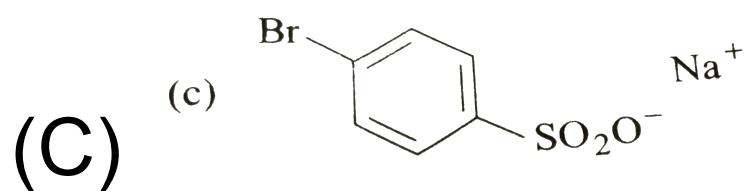
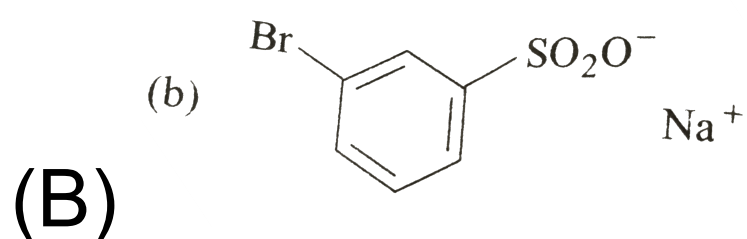
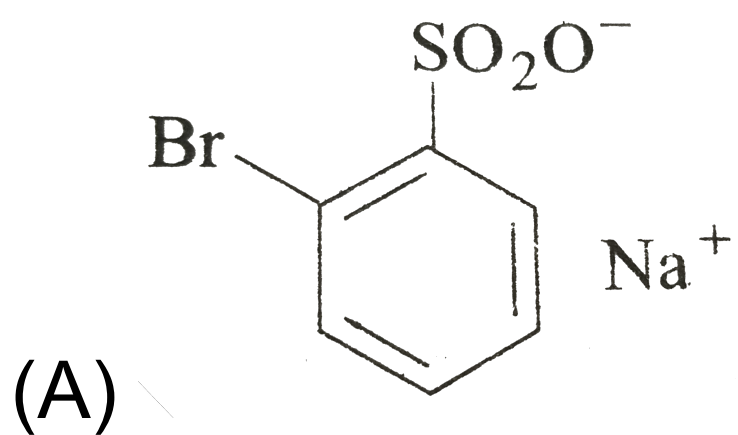
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underset(")

(ii) NaOH" )overset((i) SO\_(3)+ H\_(2)SO\_(4))toP(68 % yeild ) : P

'i s:

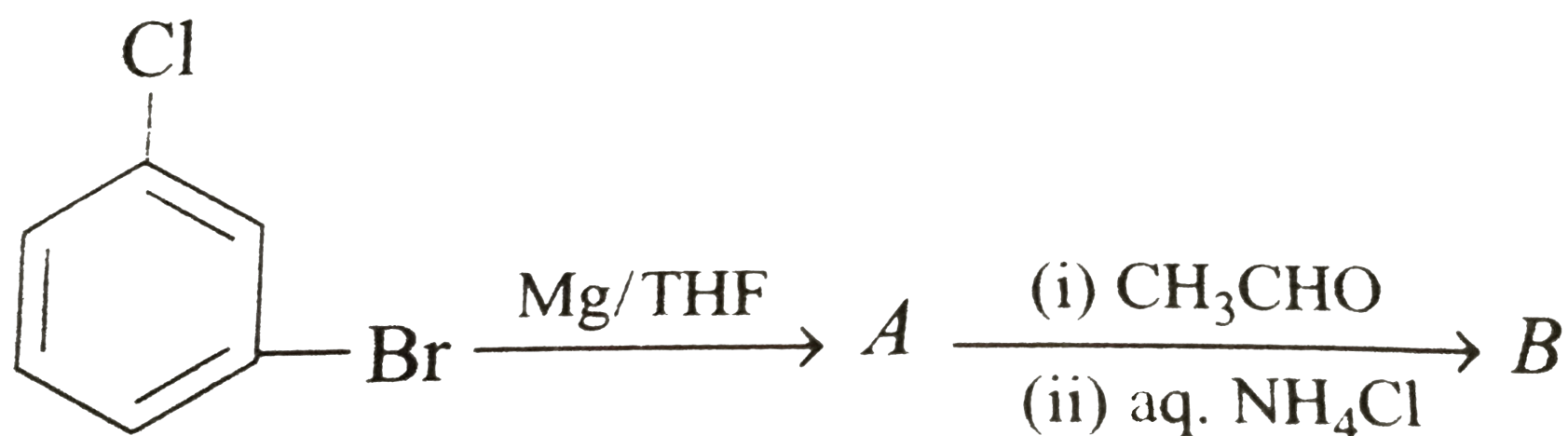


(D) none the these

CORRECT ANSWER: C

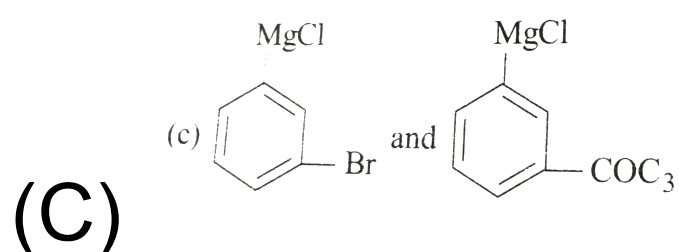
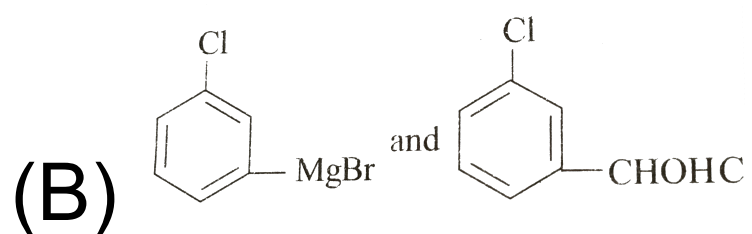
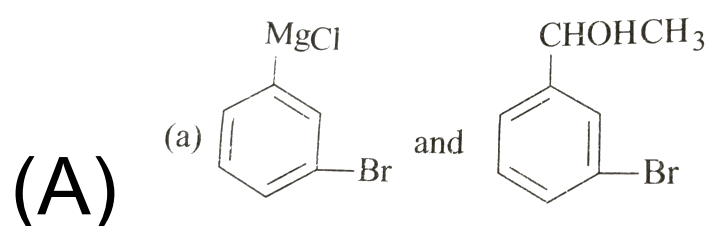
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What are A and B in the following reaction ?



overset(Mg//THF)toA underset((ii) aq.NH<sub>(4)</sub>Cl)overset((i)

CH<sub>(3)</sub>CHO)toB`



(D) none the these

---

CORRECT ANSWER: B

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Q-42 - 20000592

When phenol reacts with bromine in  $CS_2$  at a low temperature, the product is :

- (A) m-bromophenol
- (B) p-bromophenol
- (C) o- and p- bromophenol
- (D) 2,4,6- tribromophenol

---

**CORRECT ANSWER: C**

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Q-43 - 20000606

In chlorobenzene, the - Cl group :



(A) activates the benzene ring more, via resonance effects than deactivating it via inductive effect

(B) deactivates the benzene ring more, via inductive effect than activating it via resonance effects

(C) activates the benzene ring via resonance effects and deactivates it via inductive effects. Both these effects are evenly matched.

(D) it is a net deactivating group with director characteristic

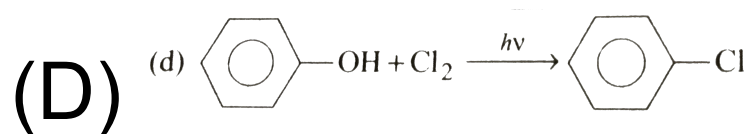
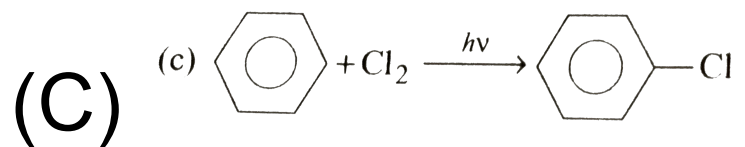
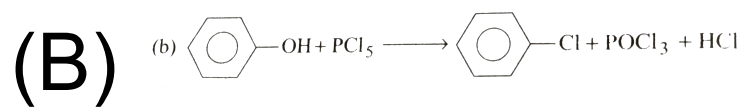
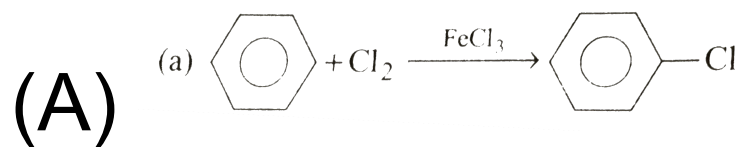
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**CORRECT ANSWER: B**

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Q-44 - 20000610

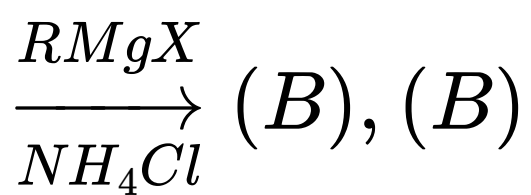
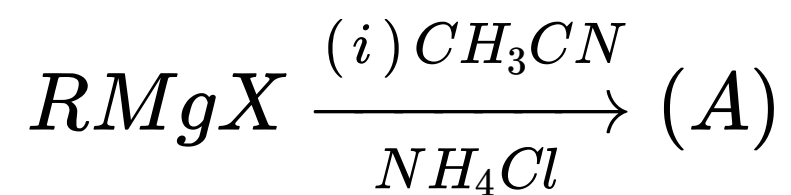
The best method for the preparation of chlorobenzene is :



CORRECT ANSWER: A

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Q-45 - 19382216



will be :

(A) 1° ROH

(B) 2° ROH

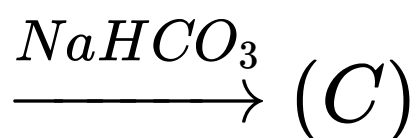
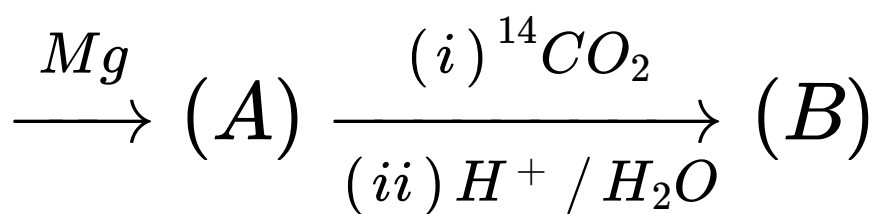
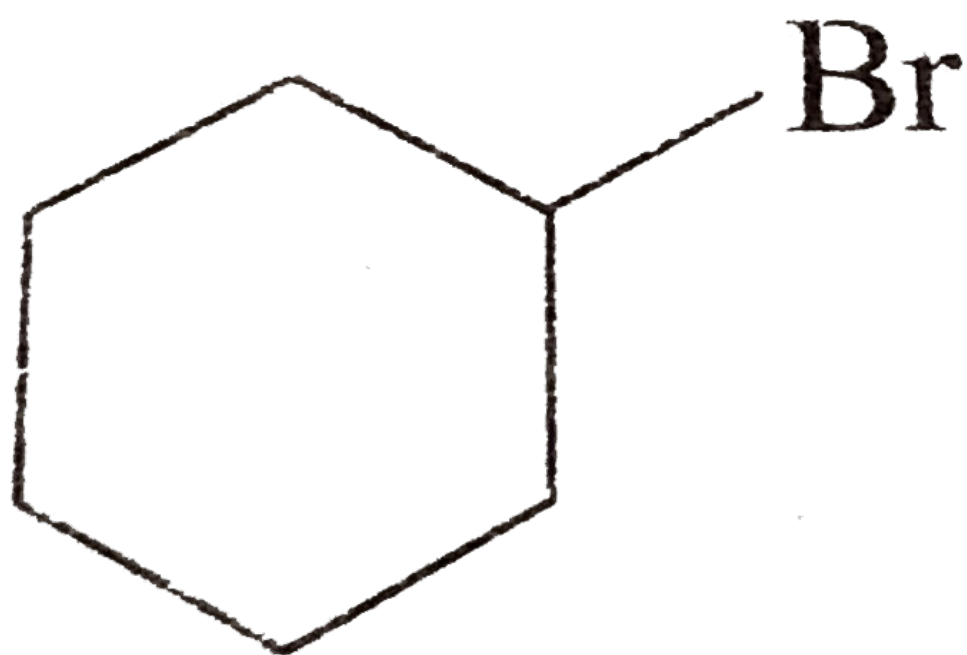
(C)  $3^\circ ROH$

(D) Alkene

CORRECT ANSWER: C

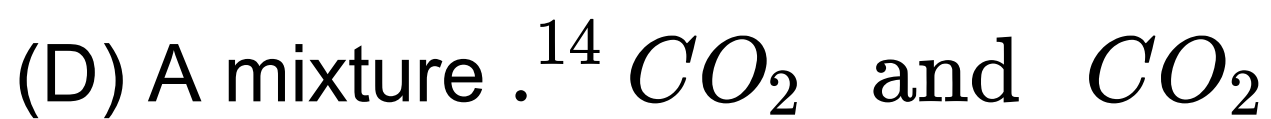
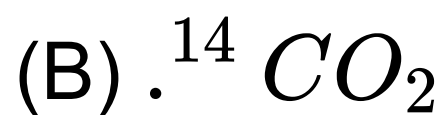
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Q-46 - 19382218



gas, product C is :

(A)  $CO$

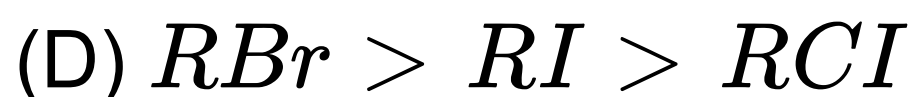
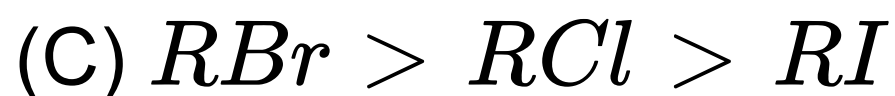
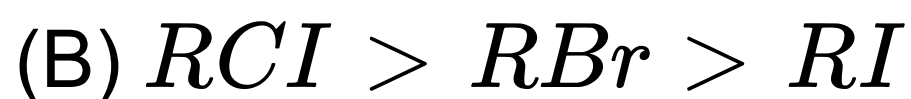
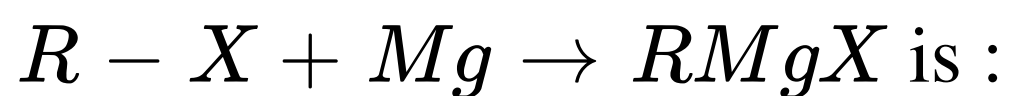


CORRECT ANSWER: C

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Q-47 - 19382205

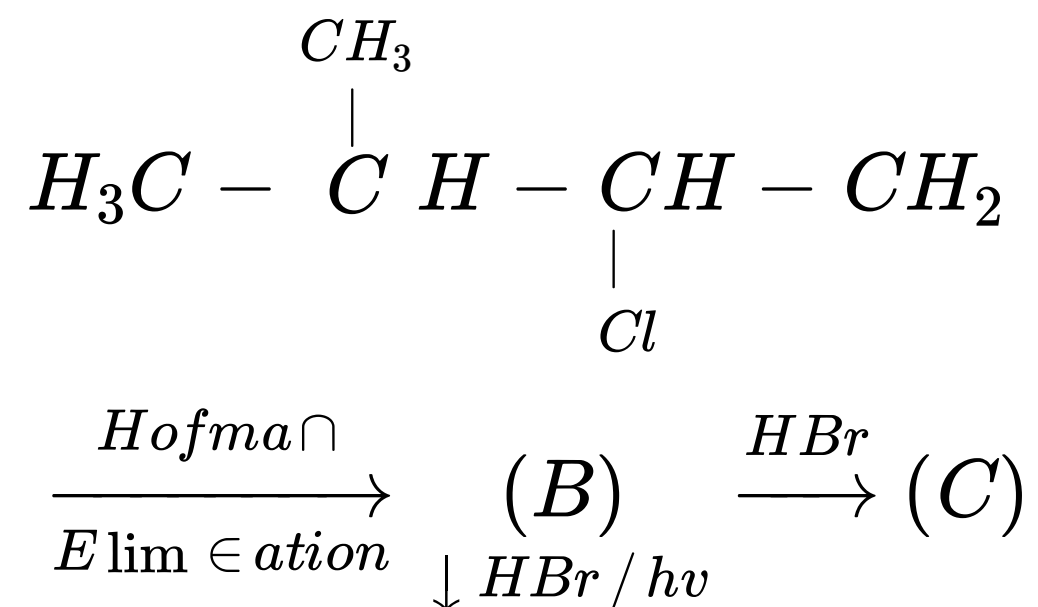
The order of reactivity of alkyl halide in the reaction



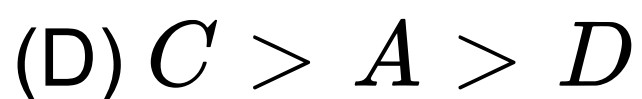
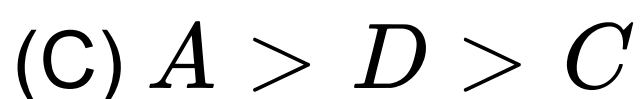
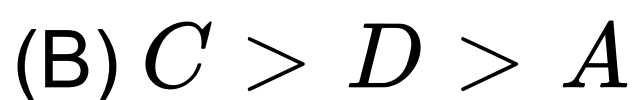
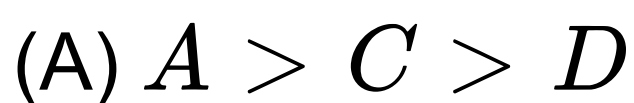
CORRECT ANSWER: A

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Q-48 - 19382204



Correct order of rate of  $S_N^2$  for A, C and D will be :

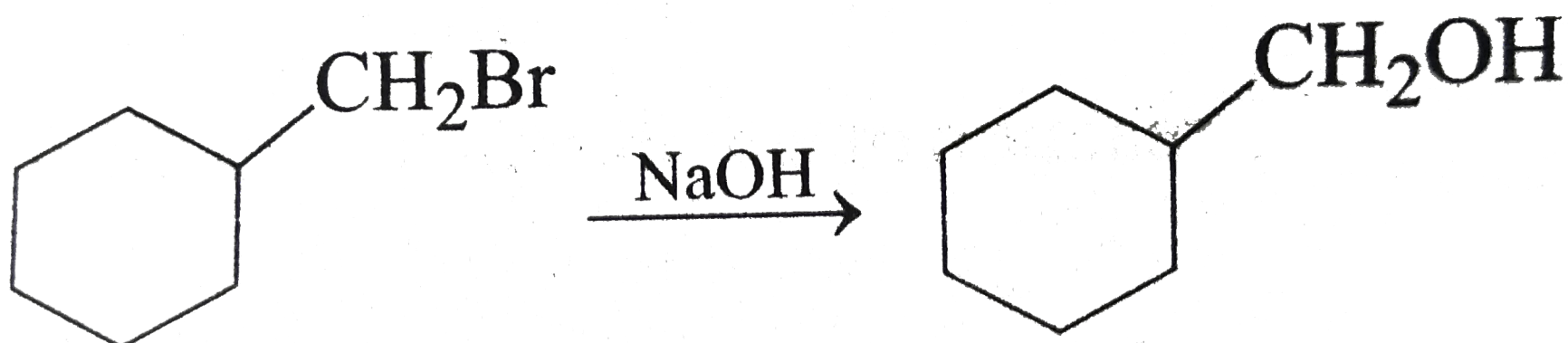


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CORRECT ANSWER: D

Q-49 - 19382201

Suggest the suitable solvent for the reaction given below.

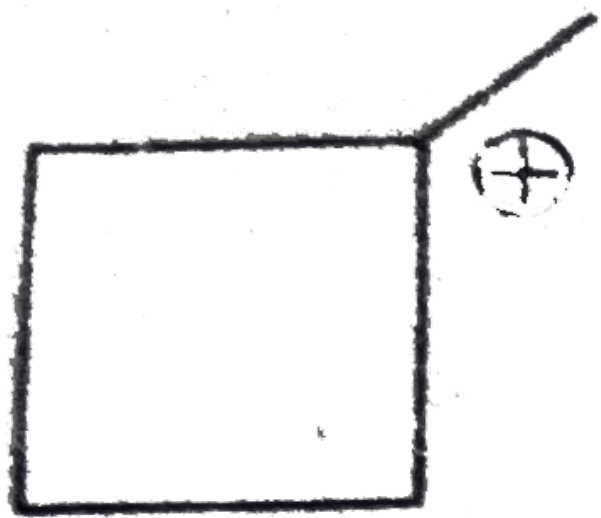


- (A)  $\text{H}_2\text{O}$
- (B)  $\text{C}_2\text{H}_5\text{OH}$
- (C)  $\text{HCONMe}_2$
- (D)  $\text{C}_6\text{H}_6$

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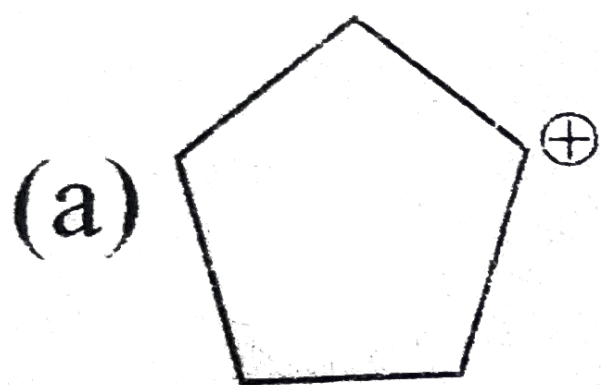
CORRECT ANSWER: C

Q-50 - 19382199

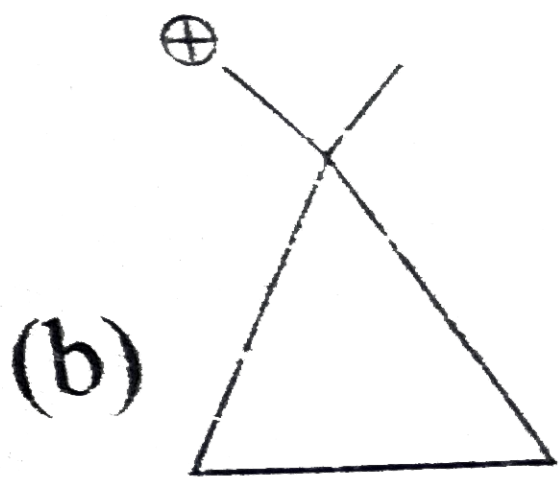


rearranges to

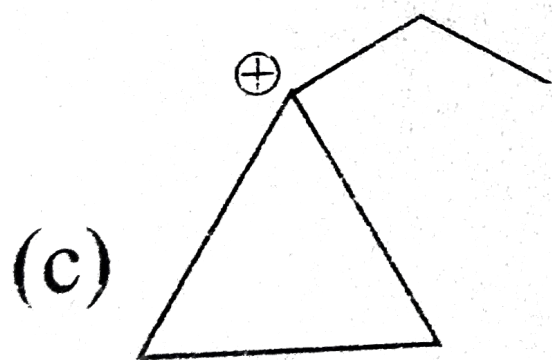
rearranges to



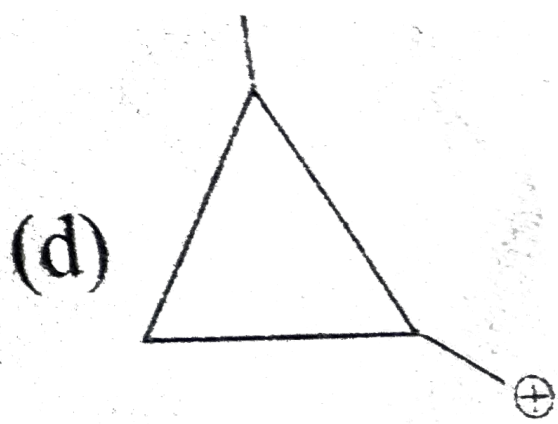
(A)



(B)



(C)



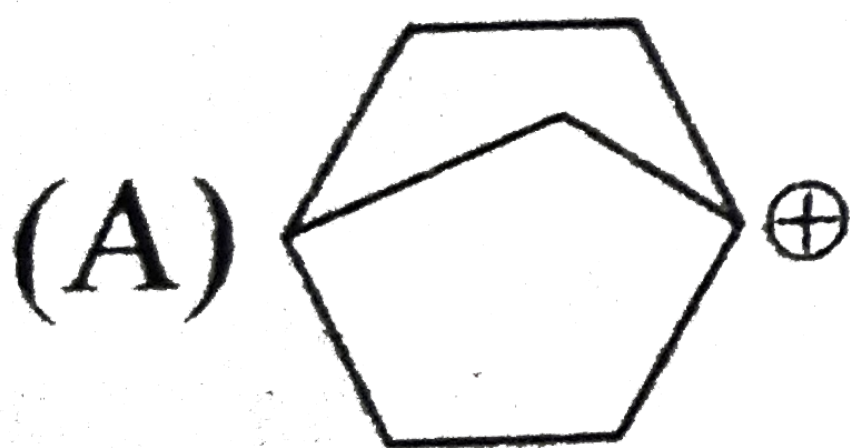
(D)

CORRECT ANSWER: D

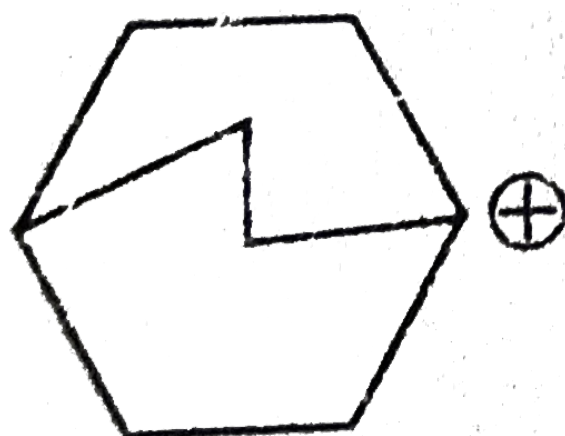
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Q-51 - 19382198

Which of the following two carbocation is more stable ?



(I)



(II)

(A) A-II, B-II

(B) A-I, B-I

(C) A-I, B-II

(D) A-II, B-I

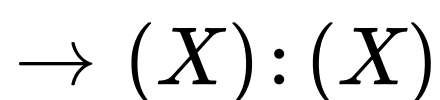
---

CORRECT ANSWER: A

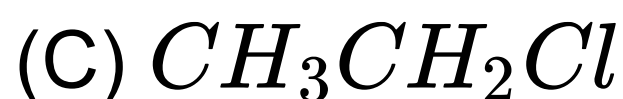


Q-52 - 19382221

Find the product of the following reaction



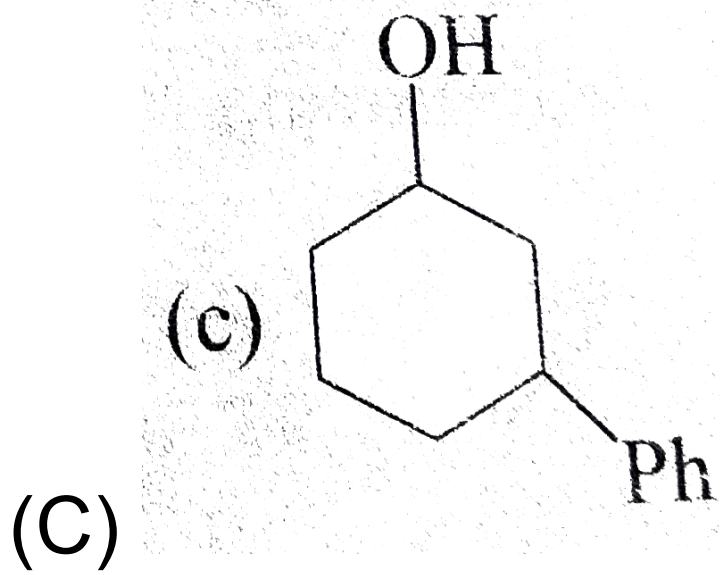
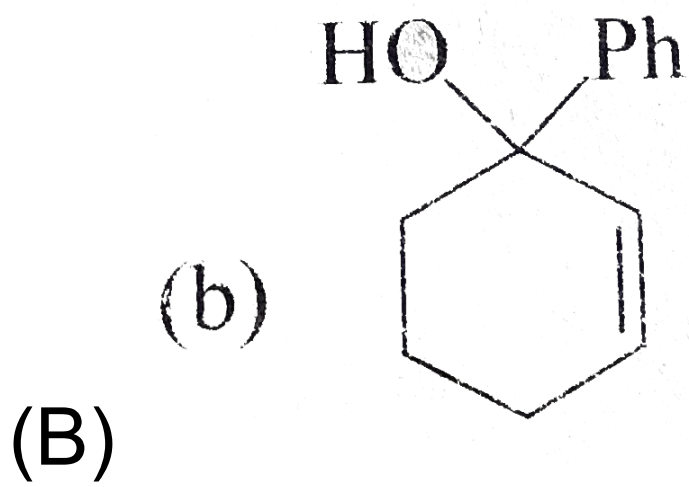
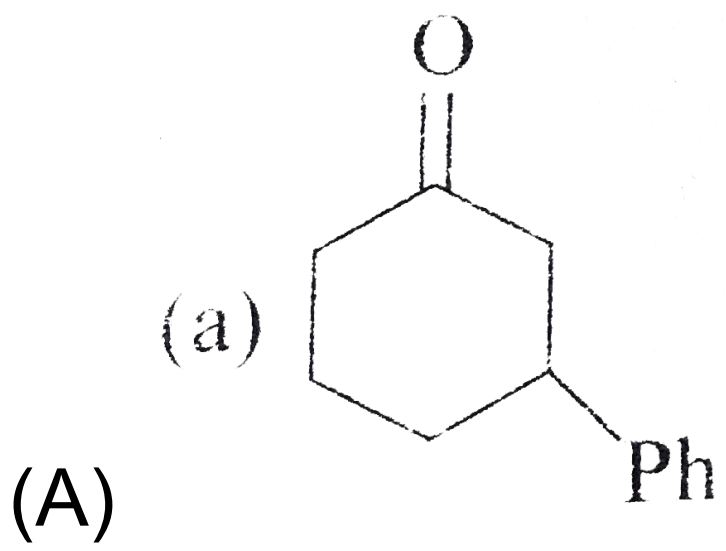
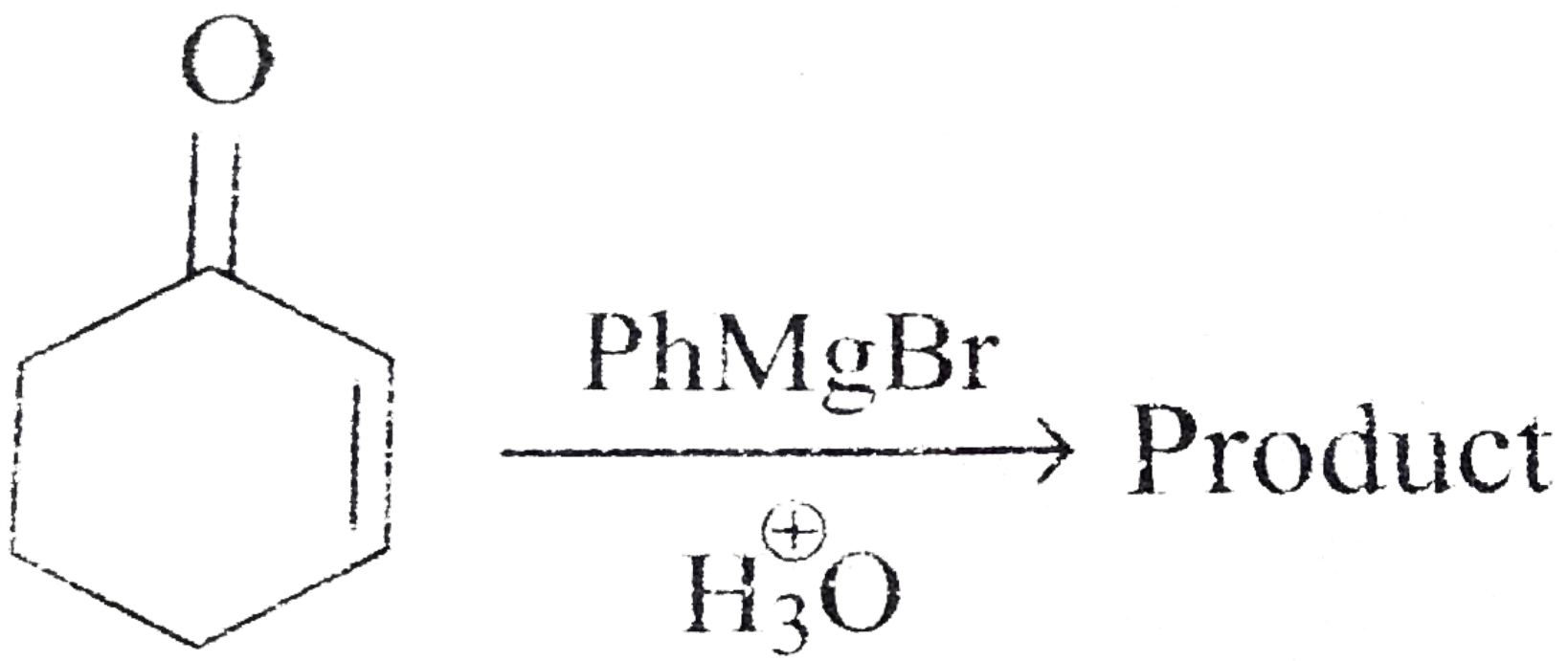
will be :

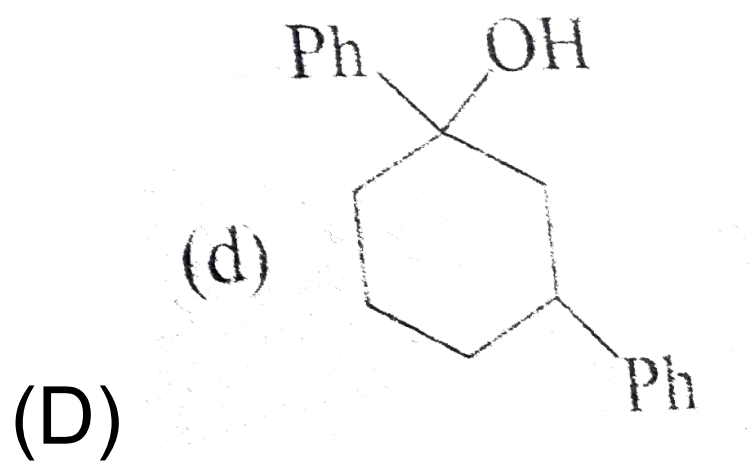


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CORRECT ANSWER: A

Q-53 - 19382222



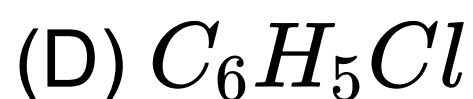
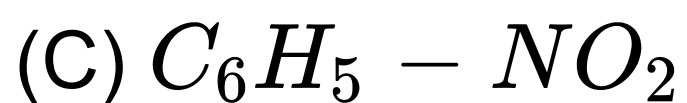
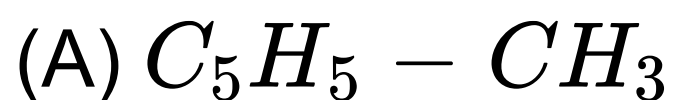


CORRECT ANSWER: A

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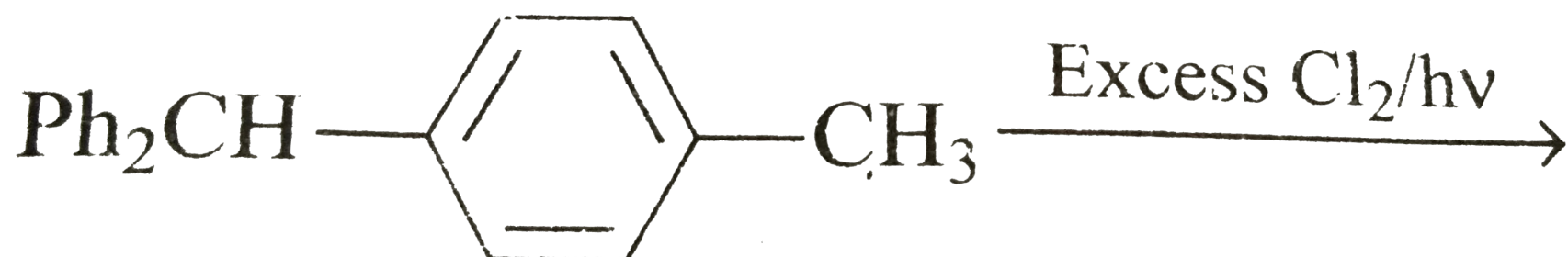
Q-54 - 20000669

Which one of the following aromatic compounds fails to undergo Friedel - crafts reactions ?

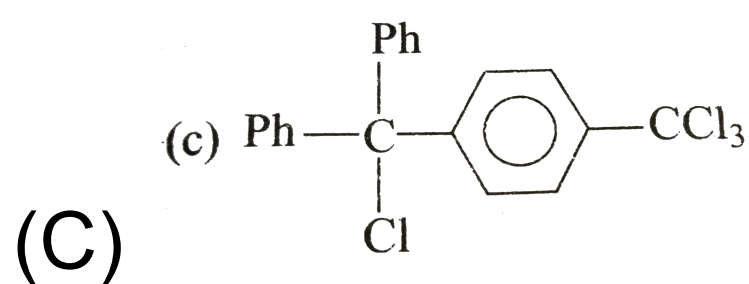
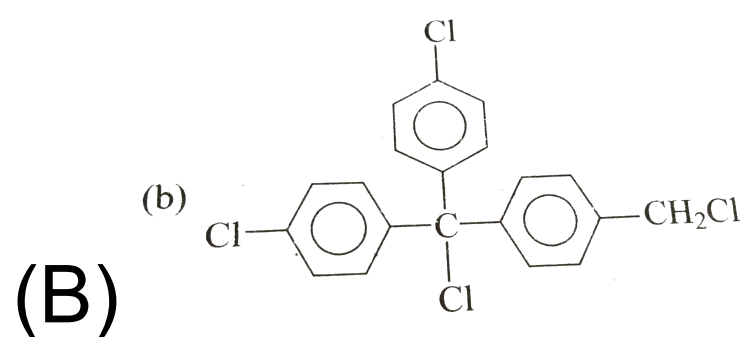
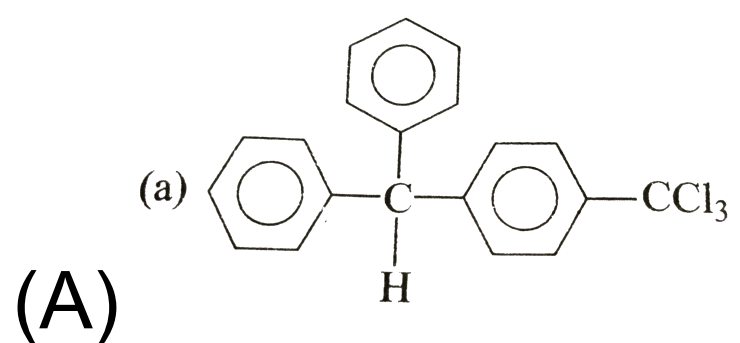


CORRECT ANSWER: C

Q-55 - 20000674



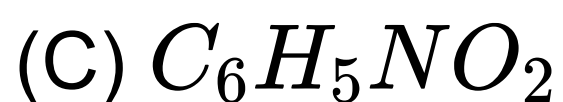
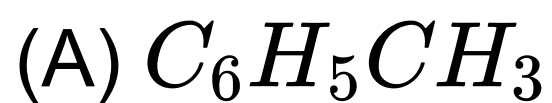
gives :



(D) None of the above

**CORRECT ANSWER: C**

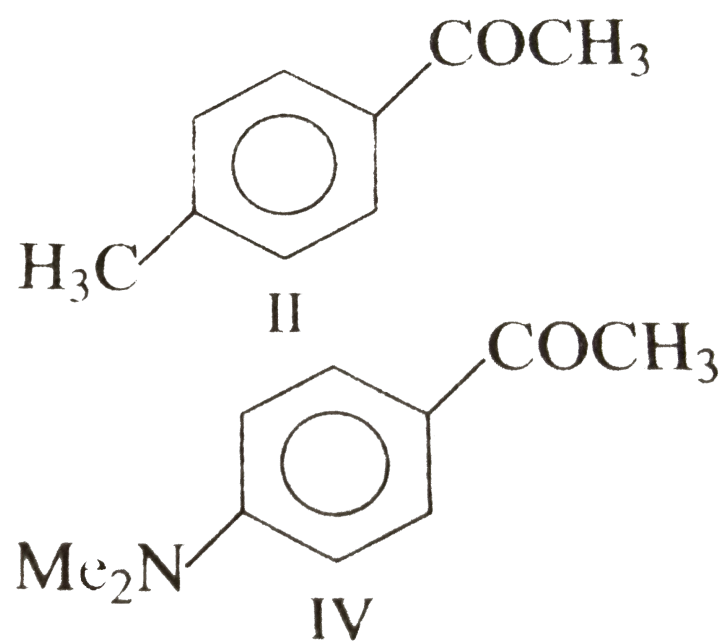
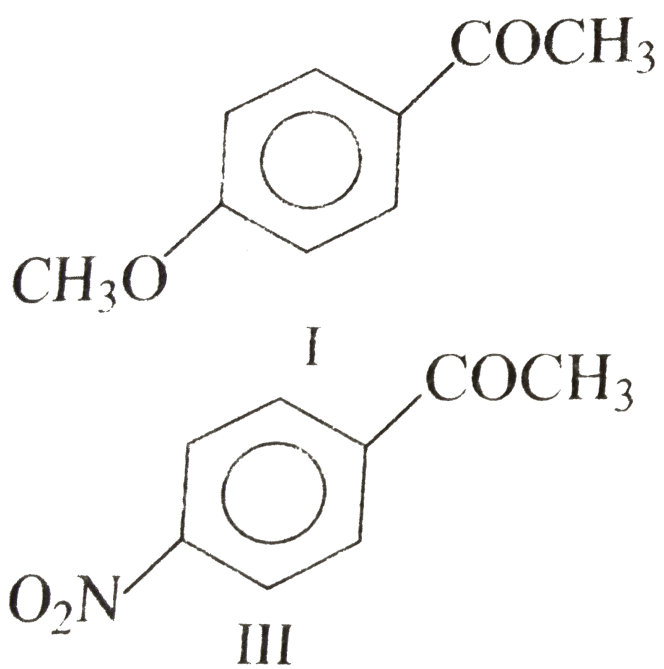
When of the following compounds react slower than benzene in electrophilic bromination ?



---

CORRECT ANSWER: C

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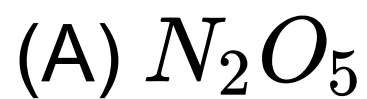
Freidel -Crafts acylation reaction can be used to obtained the compounds :

- (A) II, III and IV
- (B) I,II and IV
- (C) I and II
- (D) II and III

**CORRECT ANSWER: B**

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Nitrating agent for aromatic compound may be :



(D) All of these

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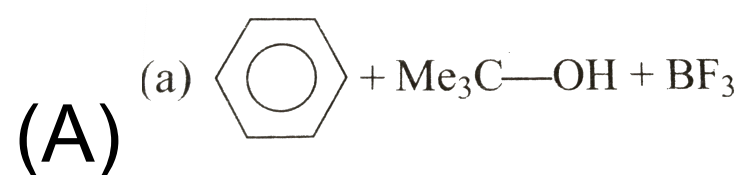
CORRECT ANSWER: D

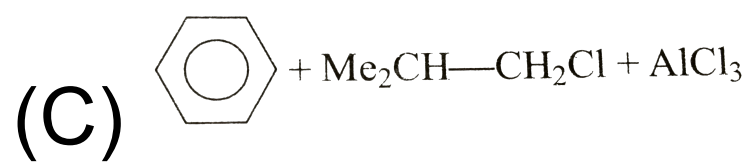
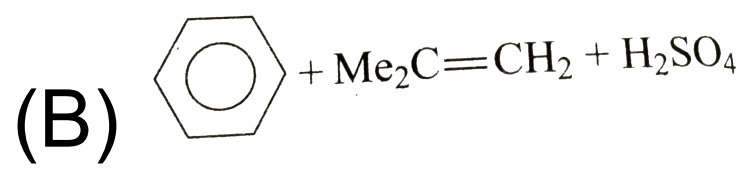
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Q-59 - 20000761

In which of the following reaction tertiary butyl benzene is formed

?





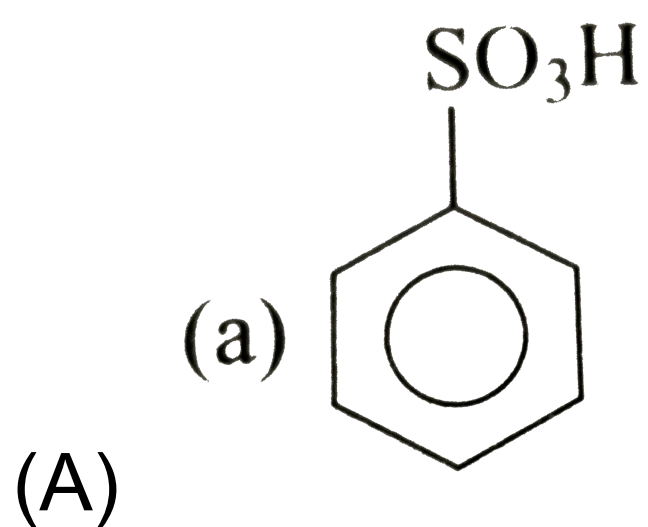
(D) All of these

CORRECT ANSWER: B

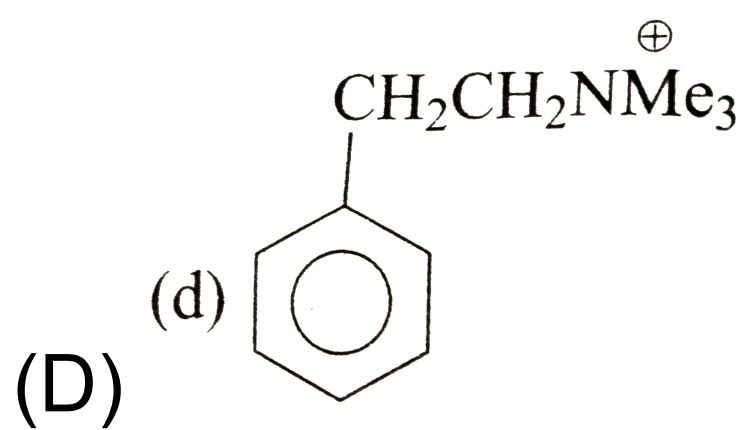
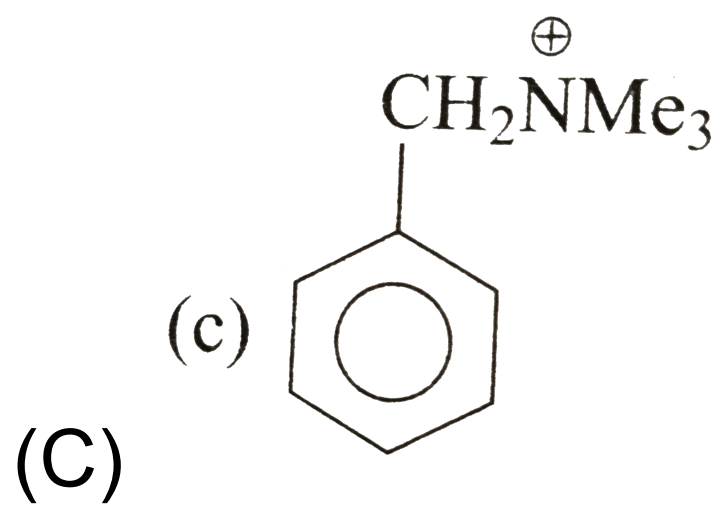
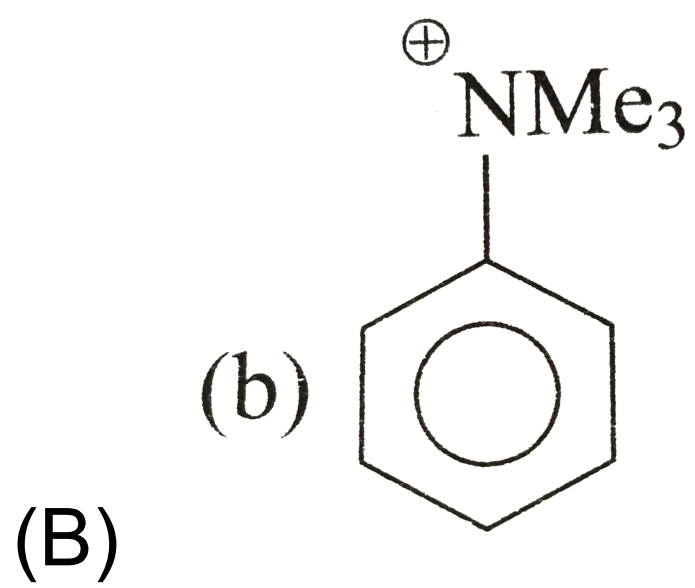
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Q-60 - 20000766

Which of the following undergoes sulphonation fast ?







---

CORRECT ANSWER: D

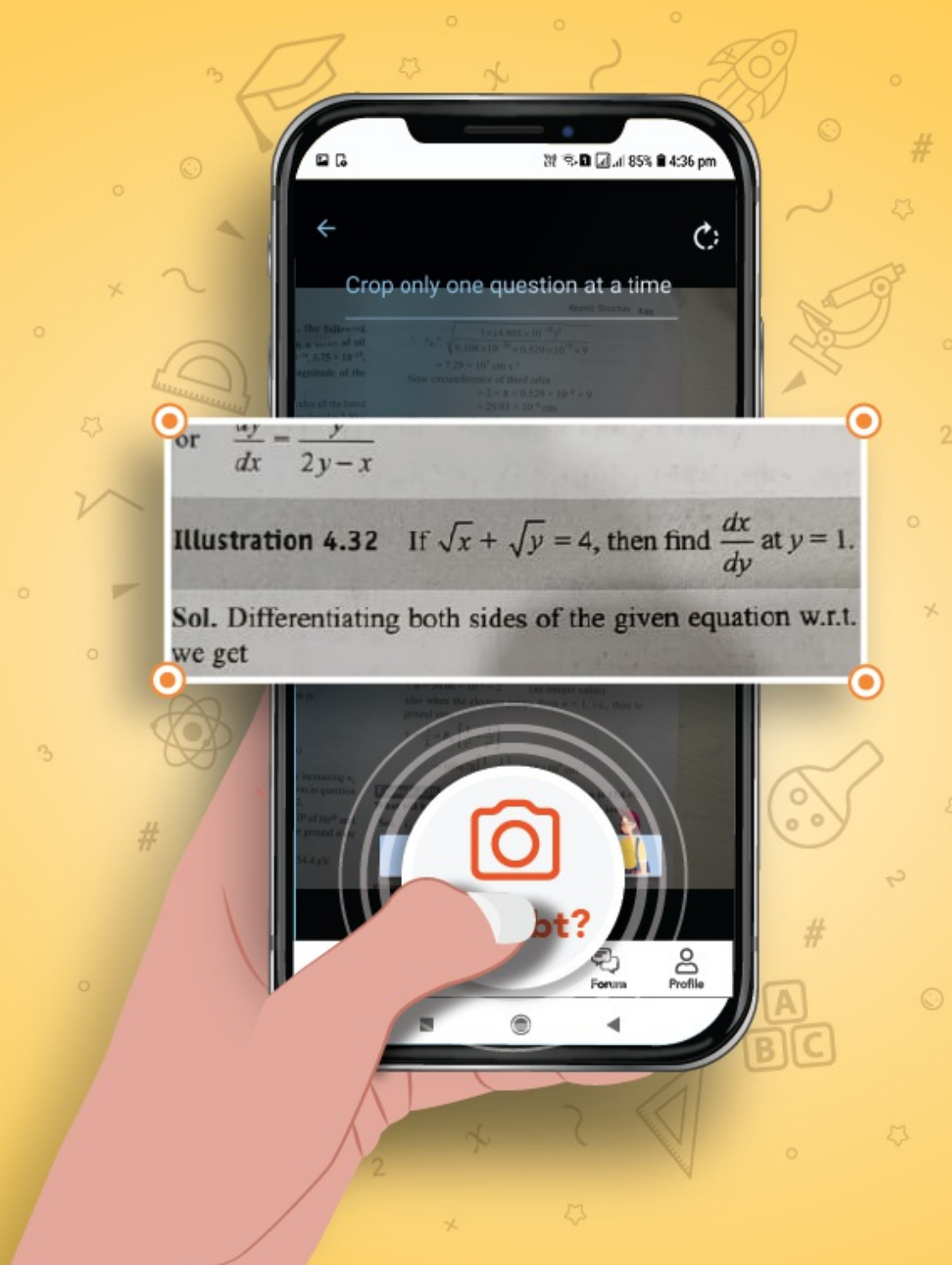
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