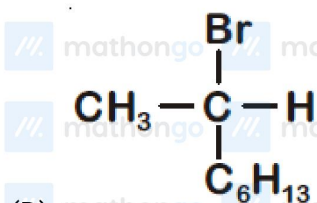
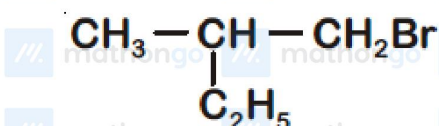
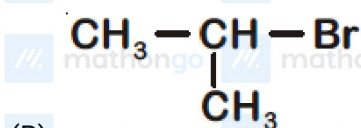
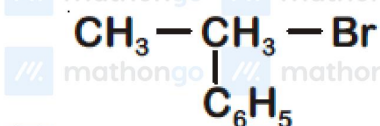


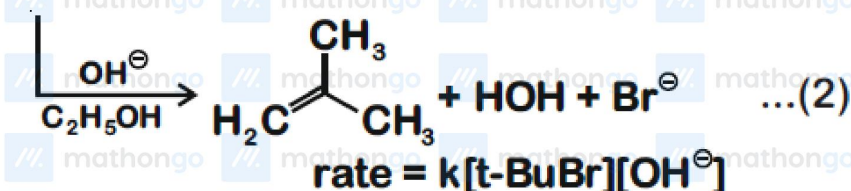
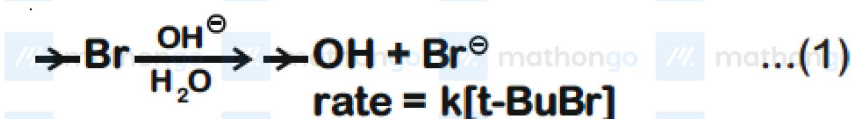
Q1 JEE Main 2020 - 2 September (Morning)

Which of the following compounds will show retention in configuration on nucleophilic substitution by OH^- ion?



Q2 JEE Main 2020 - 2 September (Evening)

Consider the reaction sequence given below:

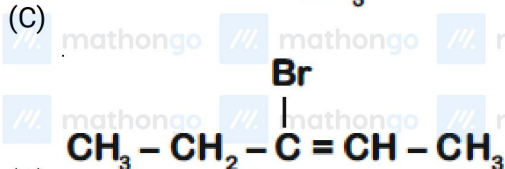
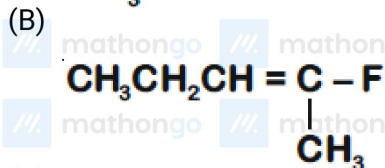
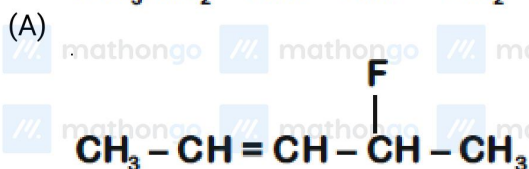
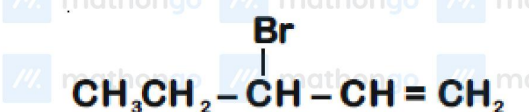


Which of the following statements is true?

- (A) Changing the concentration of base will have no effect on reaction (2)
 (B) Changing the concentration of base will have no effect on reaction (1)
 (C) Changing the base from OH^- to ^-OR will have no effect on reaction (2)
 (D) Doubling the concentration of base will double the rate of both the reactions

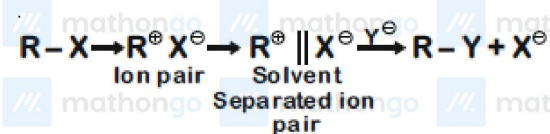
Q3 JEE Main 2020 - 2 September (Evening)

The major product obtained from E_2 -elimination of 3-bromo-2-fluoropentane is



Q4 JEE Main 2020 - 3 September (Morning)

The mechanism of $\text{S}_{\text{N}}1$ reaction is given as



A student writes general characteristics based on the given mechanism as

- (a) The reaction is favoured by weak nucleophiles.
 (b) R^{\oplus} would be easily formed if the substituents are bulky.
 (c) The reaction is accompanied by racemization.

Alkyl And Aryl Halides

JEE Main 2020 Chapterwise

Questions with Answer Keys

Chemistry

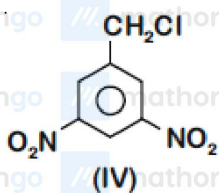
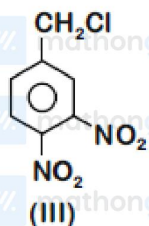
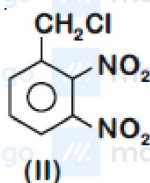
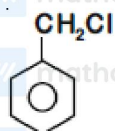
(d) The reaction is favoured by non-polar solvents.

Which observations are correct?

- (A) (b) and (d)
- (B) (a) and (c)
- (C) (a) and (b)
- (D) (a), (b) and (c)

Q5 JEE Main 2020 - 3 September (Evening)

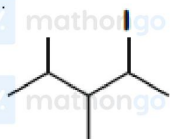
The decreasing order of reactivity of the following compounds towards nucleophilic substitution (S_N2) is



- (A) (II) > (III) > (IV) > (I)
- (B) (II) > (III) > (I) > (IV)
- (C) (III) > (II) > (IV) > (I)
- (D) (IV) > (II) > (III) > (I)

Q6 JEE Main 2020 - 3 September (Evening)

The major product in the following reaction is



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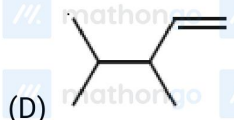
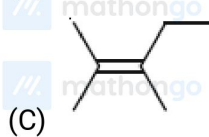
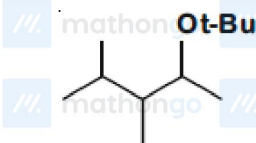
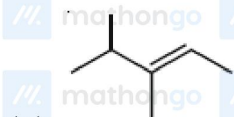
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Alkyl And Aryl Halides

JEE Main 2020 Chapterwise

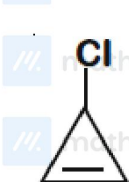
Questions with Answer Keys

Chemistry

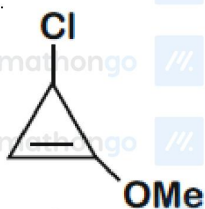


Q7 JEE Main 2020 - 4 September (Morning)

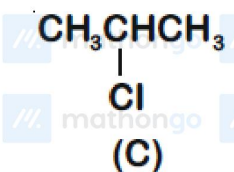
The decreasing order of reactivity of the following organic molecules towards AgNO_3 solution is



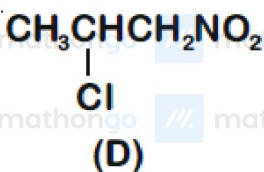
(A)



(B)



(C)



(D)

(A) (B) > (A) > (C) > (D)

(B) (A) > (B) > (D) > (C)

(C) (A) > (B) > (C) > (D)

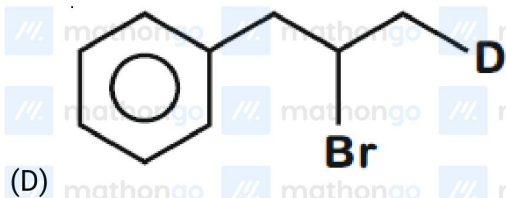
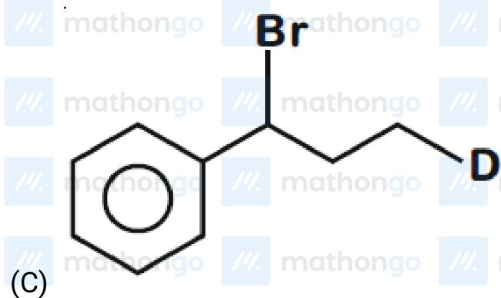
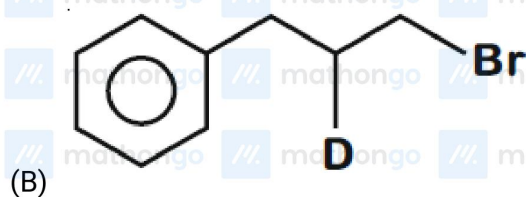
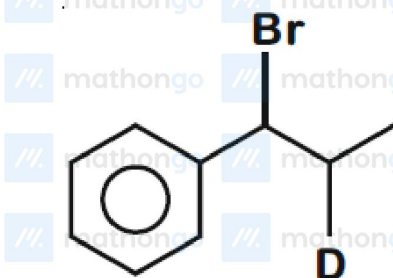
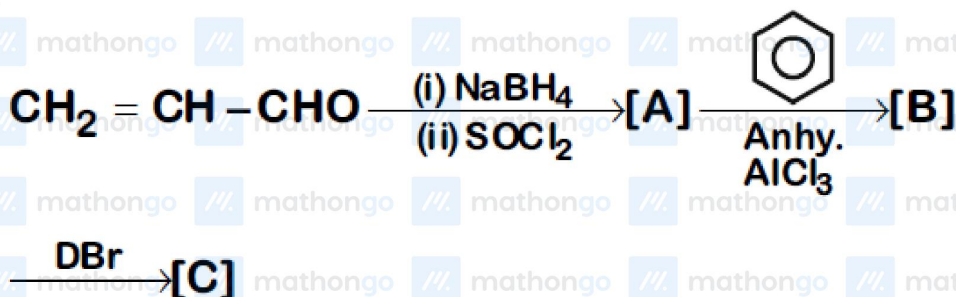
(D) (C) > (D) > (A) > (B)

Q8 JEE Main 2020 - 4 September (Evening)

#MathBoleTohMathonGo

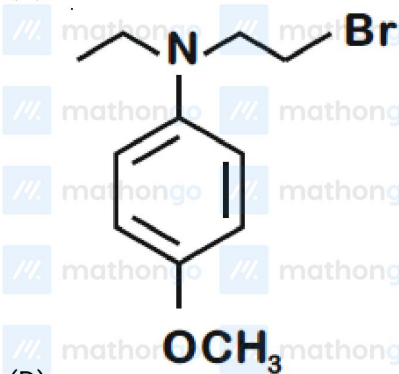
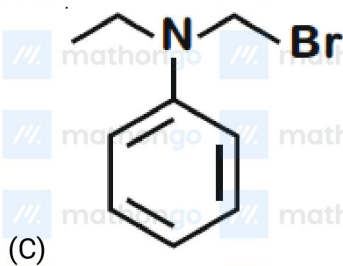
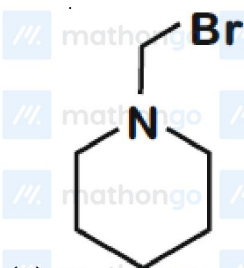
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The major product [C] of the following reaction sequence will be



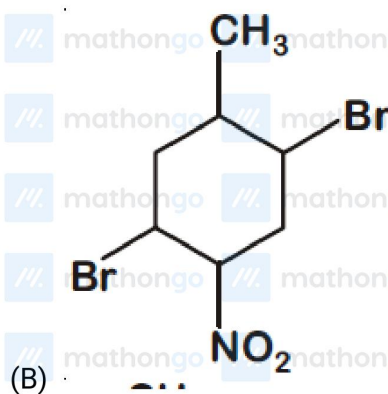
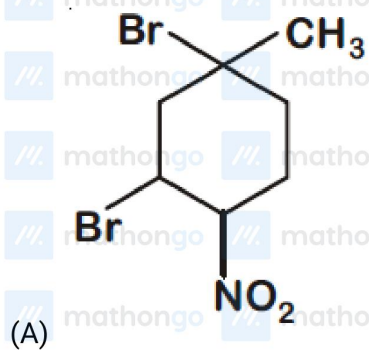
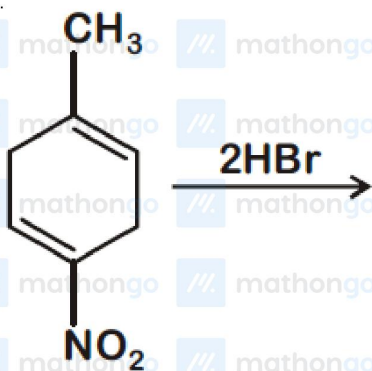
Q9 JEE Main 2020 - 4 September (Evening)

Which of the following compounds will form the precipitate with aq. AgNO solution most readily?



Q10 JEE Main 2020 - 6 September (Morning)

The major product of the following reaction is

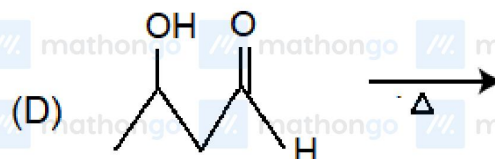
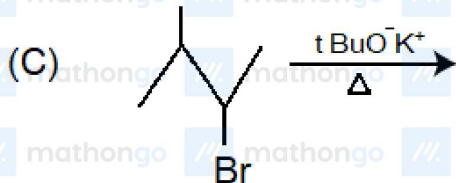
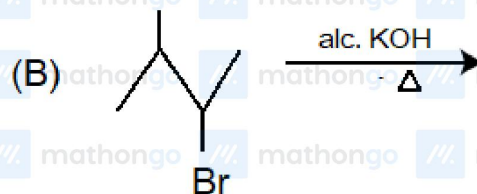
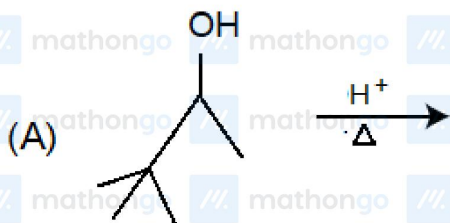




Q11 JEE Main 2020 - 7 January (Morning)

Consider the following reactions :

Which of these reaction(s) will not produce Saytzeff product ?

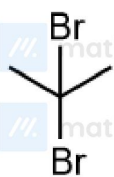


- (A) Only C
- (B) Only B
- (C) A, C & D
- (D) B & D

Q12 JEE Main 2020 - 7 January (Morning)

1-methyl-ethylene oxide $\xrightarrow[\text{HBr}]{\text{excess}}$ X Product 'X' will be

(A)



Alkyl And Aryl Halides

JEE Main 2020 Chapterwise

Questions with Answer Keys

Chemistry

(B) mathongo mathongo mathongo mathongo mathongo mathongo mathongo mathongo mathongo mathongo



(C) mathongo mathongo mathongo mathongo mathongo mathongo mathongo mathongo mathongo mathongo



(D) mathongo mathongo mathongo mathongo mathongo mathongo mathongo mathongo mathongo mathongo



Q13 JEE Main 2020 - 7 January (Evening) mathongo mathongo mathongo mathongo mathongo mathongo mathongo mathongo mathongo mathongo

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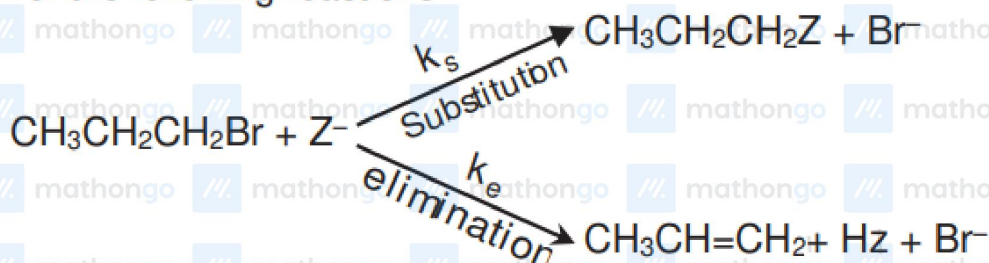
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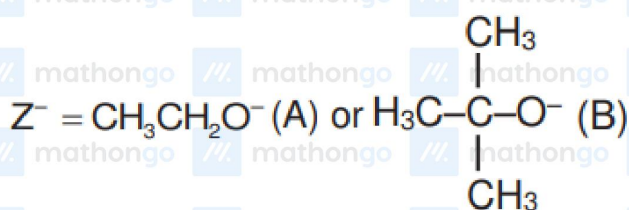
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For the following reactions



where,

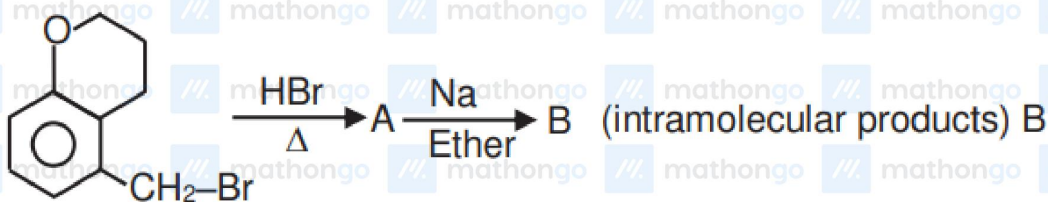


k_s and k_e , are, respectively, the rate constants for substitution and elimination,

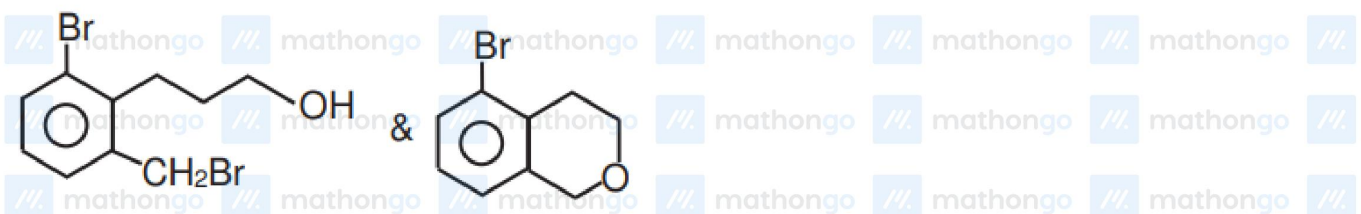
and $\mu = \frac{k_s}{k_e}$, the correct option is _____.



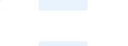




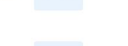
- (A) $\mu_A > \mu_B$ and $k_e(B) > k_e(A)$
- (B) $\mu_A > \mu_B$ and $k_e(A) > k_e(B)$
- (C) $\mu_B > \mu_A$ and $k_e(B) > k_e(A)$
- (D) $\mu_B > \mu_A$ and $k_e(A) > k_e(B)$

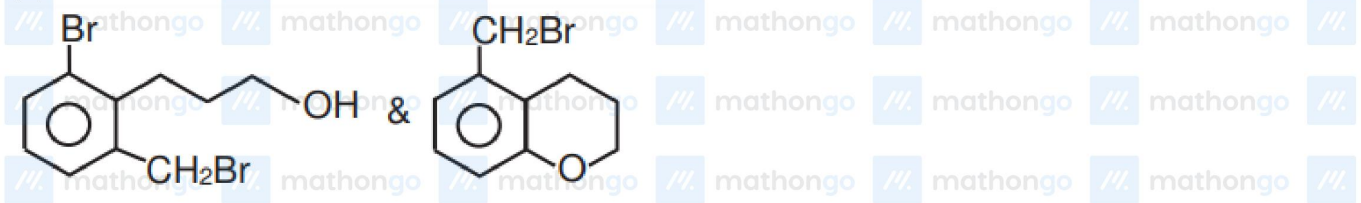
Q14 JEE Main 2020 - 7 January (Evening)



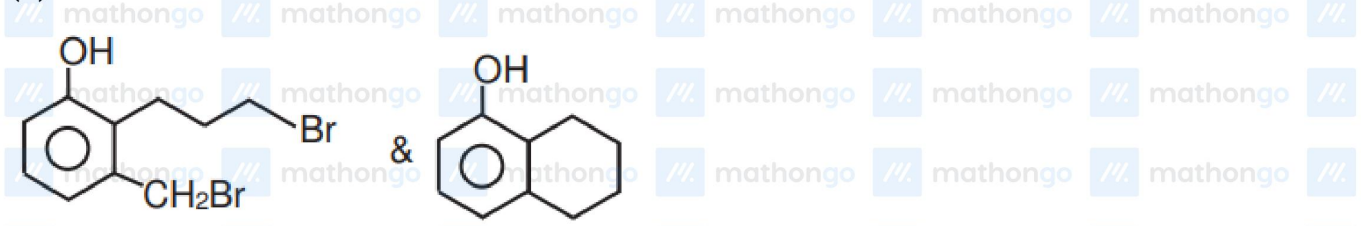
(A)        



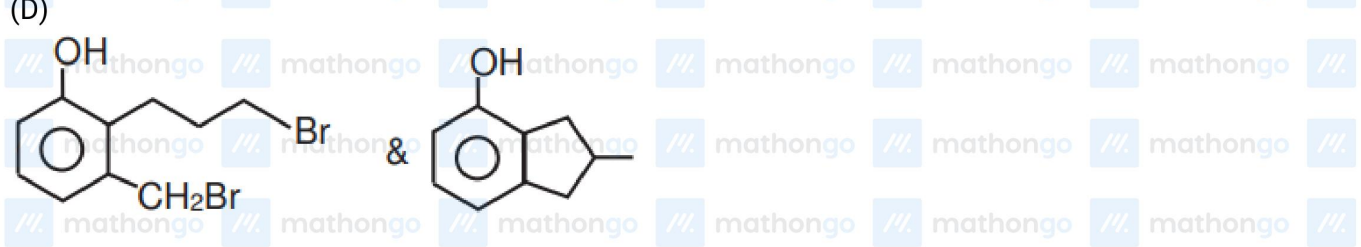
(B)        



(C)        



(D)        



Q15 JEE Main 2020 - 8 January (Morning)

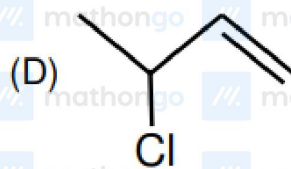
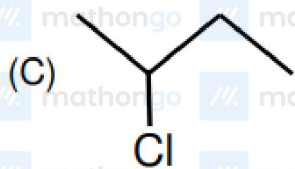
The decreasing order of reactivity towards dehydrohalogenation (E_1) reaction of the following compounds is :

Alkyl And Aryl Halides

JEE Main 2020 Chapterwise

Questions with Answer Keys

Chemistry



(A) $C > B > D > A$

(B) $D > B > C > A$

(C) $B > C > D > A$

(D) $A > B > C > D$

Answer Key

Q1 (C)	Q2 (B)	Q3 (C)	Q4 (D)
Q5 (C)	Q6 (C)	Q7 (A)	Q8 (C)
Q9 (B)	Q10 (A)	Q11 (A)	Q12 (B)
Q13 (A)	Q14 (C)	Q15 (B)	