

## Q1 - 24 January - Shift 1

**Assertion A :** Hydrolysis of an alkyl chloride is a slow reaction but in the presence of NaI, the rate of the hydrolysis increases.

**Reason R :**  $\Gamma^-$  is a good nucleophile as well as a good leaving group.

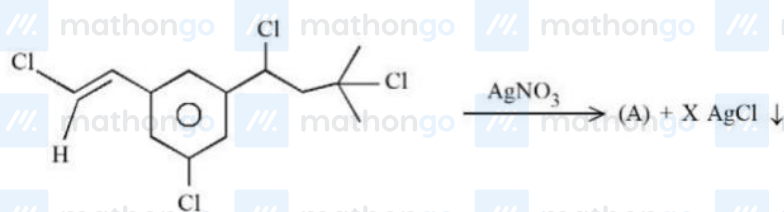
In the light of the above statements, choose the **correct** answer from the options given below.

- (1) A is false but R is true
- (2) A is true but R is false
- (3) Both A and R are true and R is the correct explanation of A
- (4) Both A and R are true but R is NOT the correct explanation of A

Space for your notes:

## Q2 - 24 January - Shift 1

Number of moles of AgCl formed in the following reaction is \_\_\_\_\_.



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## Q3 - 24 January - Shift 2

Maximum number of isomeric monochloro derivatives which can be obtained from 2,2,5,5-tetramethylhexane by chlorination is \_\_\_\_\_.

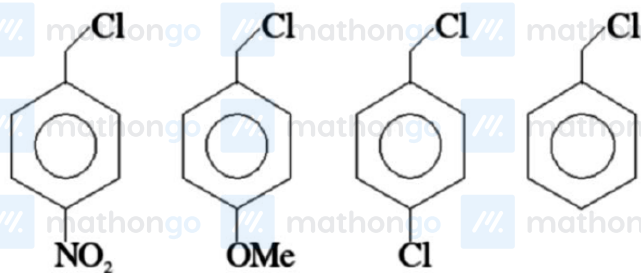
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## Q4 - 30 January - Shift 2

## Questions with Solutions

MathonGo

Decreasing order towards  $S_N1$  reaction for the following compounds is:



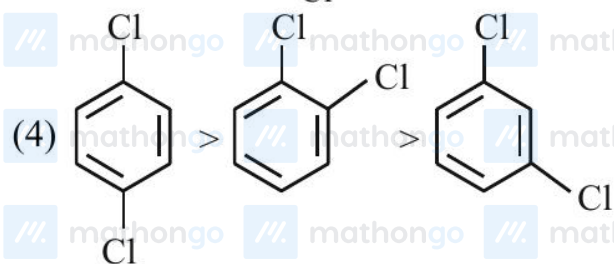
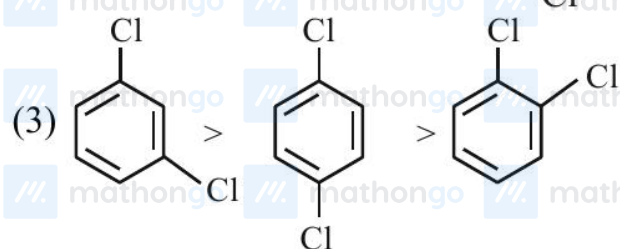
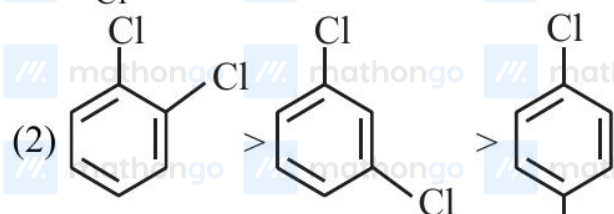
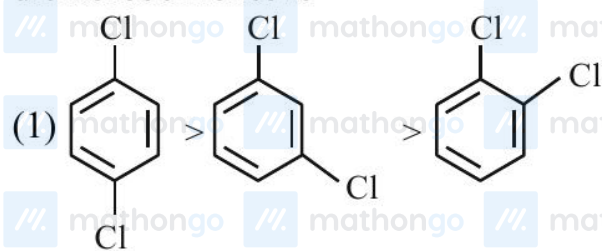
(a) (b) (c) (d)

- (1)  $a > c > d > b$  (2)  $a > b > c > d$   
 (3)  $b > d > c > a$  (4)  $d > b > c > a$

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## Q5 - 31 January - Shift 1

The correct order of melting point of dichlorobenzenes is

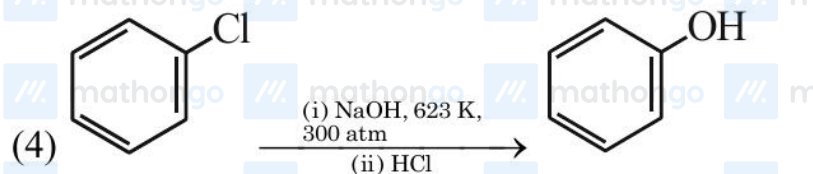
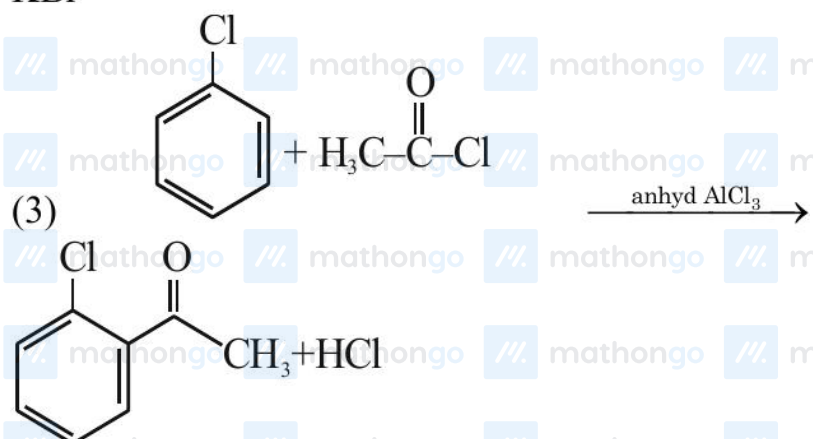
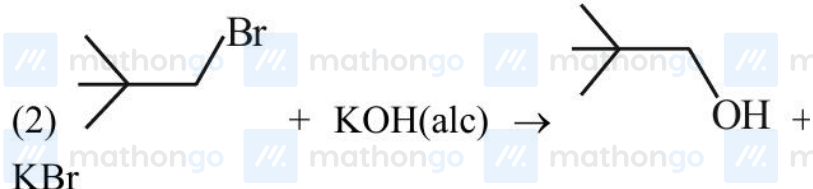
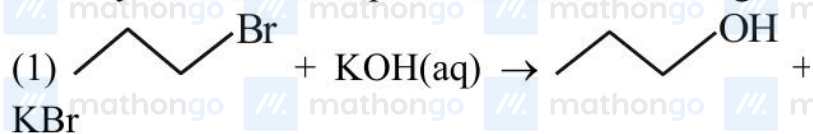


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## Q6 - 01 February - Shift 1

Identify the incorrect option from the following:



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Questions with Solutions

MathonGo

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## Answer Key

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(As per Official NTA Key released on 2 Feb)

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**Q1 (3)**

**Q2 (2)**

**Q3 (3)**

**Q4 (3)**

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**Q5 (4)**

**Q6 (2)**

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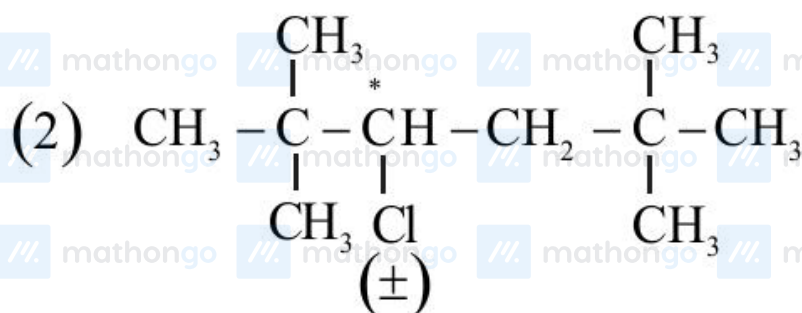
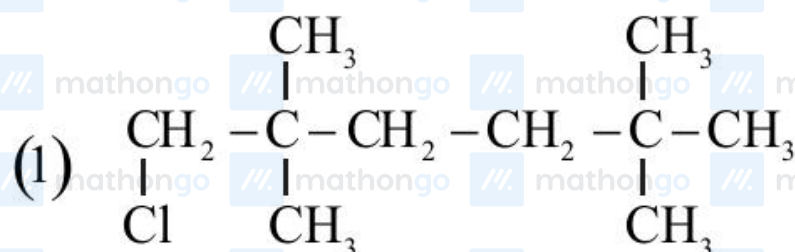
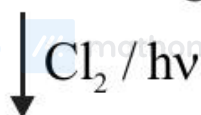
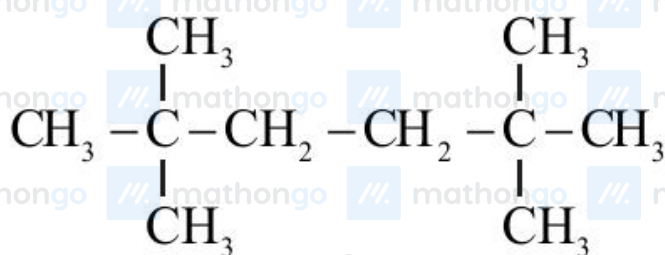
Q1 (3)

The rate of hydrolysis of alkyl chloride improves because of better Nucleophilicity of  $\text{I}^-$ .

Q2 (2)

Benzylic and tertiary carbocations are stable

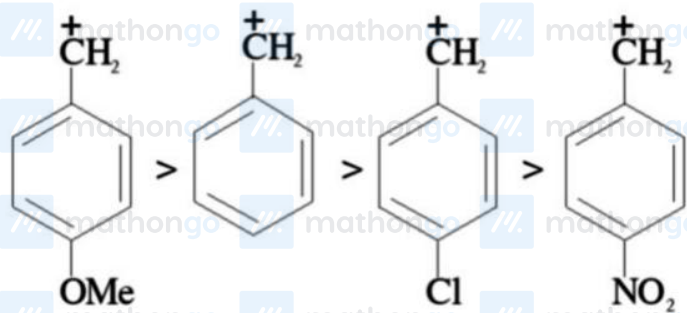
Q3 (3)



Total numbers of isomer = 03

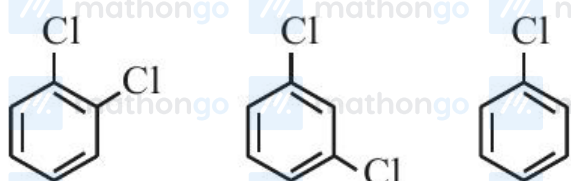
Q4 (3)

The rate of  $S_N1$  reaction depends upon stability of carbocation which follows the order

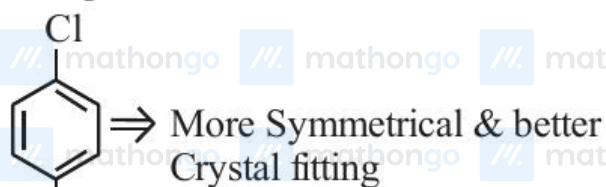


$\therefore$  Reactivity order

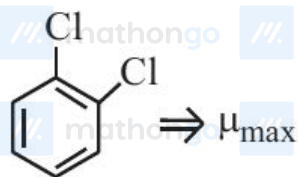
Q5 (4)



b.p / K	453	446	448
m.p / K	256	249	323



M.P a Packing efficiency



Q6 (2)

In alcoholic KOH, elimination reaction takes place