

4.2 Consider the equations for reactions I to III below.

A and B represent organic compounds that are POSITIONAL isomers.
X is an inorganic product.

I	$\text{CH}_3\text{CH}_2\text{CHCHCH}_3 + \text{HCl} \rightarrow \text{A} + \text{B}$
II	$\text{A} \xrightarrow[\Delta]{\text{H}_2\text{O}} \text{CH}_3\text{CH}_2\text{CH}_2\text{CH}(\text{OH})\text{CH}_3 + \text{X}$
III	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}(\text{OH})\text{CH}_3 \rightarrow \text{CH}_3\text{CH}_2\text{CHCHCH}_3 + \text{H}_2\text{O}$

Write down the:

4.2.1 Definition of positional isomers

(2)

4.2.2 Type of reaction represented by reaction I

(1)

4.2.3 STRUCTURAL formula of compound B

(3)

4.2.4 Formula of X

(1)

4.2.5

H₂O

(are they PO₁₀?)

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**Stephanie Clark, Stephanie
Jung, Buddhi Lamsal**



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