

GCE A level Chemistry A (H432)
H432/02 Synthesis and analytical techniques

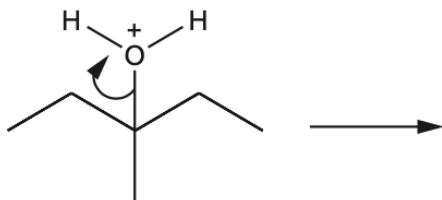
Question Set 25

1. This question is about reaction mechanisms.

(a) Chemists use curly arrows in reaction mechanisms.

(i) What does a curly arrow show in a reaction mechanism? [1]

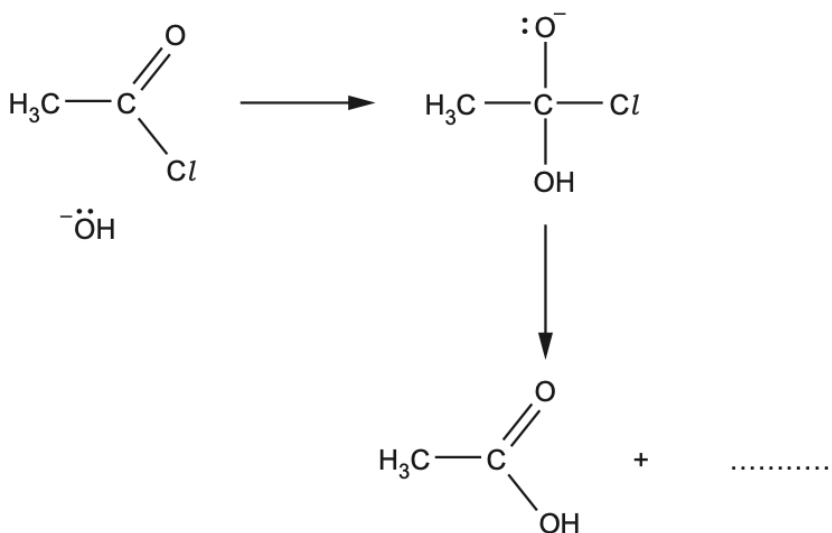
(ii) Draw structures to show the products in the reaction mechanism below.



(iii) Use the mechanism in (ii) to explain what is meant by **heterolytic fission**. [2]

(b) An incomplete reaction mechanism is shown below. [2]

(i) Complete the mechanism by adding curly arrows and any missing species.



(ii) What is the role of OH⁻ in this mechanism? [4]

[1]

Total Marks for Question Set 25: 10

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