**Cracking**

**2019**

**(i)** What is the name of the process to break down large molecules from crude oil into smaller hydrocarbon molecules and why is it necessary for the production of polymers?

**(ii)** Write a balanced symbol equation to show heptane being broken down into pentane and ethene.

**(iii)** Write a balanced symbol equation to show the products formed when C15H32 is broken down into the smaller hydrocarbon molecules of octane, ethene, and propene.

**2018**

Balanced symbol equation for the cracking of hexane to form ethene

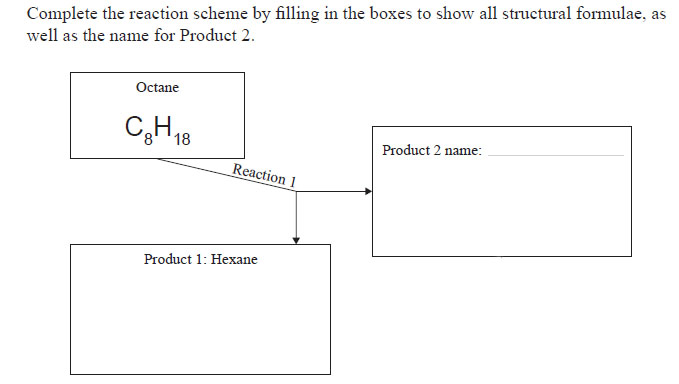
**2017**

(i) Write a balanced symbol equation for the cracking of decane, C10H22, to produce pentane and two other products.

(ii) Contrast the processes of fractional distillation and cracking.

In your answer, you should refer to relevant physical and / or chemical properties of hydrocarbons.

**2016**



**2015**

Dodecane, C12H26, can be reacted in to form ethene and octane.

(i) State one condition that is needed.

(ii) Write a balanced symbol equation for the cracking of dodecane.

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