

Answer ALL questions. Write your answers in the spaces provided.

1 Alkanes are often used as fuels.

- (a) Complete the equation for the complete combustion of hexane.
State symbols are not required.

(1)



- (b) Identify **two** pollutants produced from the **incomplete** combustion of a pure sample of pentane.

(2)

- (c) Explain the problem which results from sulfur impurities in fuels.

(2)

- (d) Adding cyclic hydrocarbons to fuels results in more efficient combustion.
These compounds can be made by reforming straight-chain alkanes.

Write an equation for the reforming of pentane into a cyclic hydrocarbon, using skeletal formulae for the organic compounds.
State symbols are not required.

(2)

(Total for Question 1 = 7 marks)



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GCE.



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