

1 Crude oil is a mixture of hydrocarbons which can be separated into fractions.

1 (a) (i) What is a mixture? [2 marks]

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1 (a) (ii) What is a hydrocarbon? [2 marks]

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1 (b) The table below gives some information on the hydrocarbon fractions found in crude oil.

Fraction	Boiling point	Relative % in crude oil	Carbon chain length	Demand
Naptha	125	10	5 to 10	high
Kerosene	160	15	10 to 15	high
Diesel	250	20	15 to 20	medium
Fuel oil	300	45	30 to 70	low

1 (b) (i) Naphtha has a lower boiling point than diesel.

Explain why. [2 marks]

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1 (b) (ii) Kerosene is more expensive than fuel oil.

Suggest reasons why. [2 marks]

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(Total 8 marks)

End

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