

Question 1

1(b)(i)	X in lowest section of the fractionating column / X in the fractionating column where bitumen collects	1
1(b)(ii)	kerosene / paraffin	1
1(b)(iii)	refinery gas	1
1(b)(iv)	making roads	1

Question 2

2(b)(i)	alkenes	1
2(b)(ii)	breakdown of a compound (1) using heat / by heat (1)	2
2(c)	naphtha → making chemicals lubricating fraction → waxes and polishes kerosene → jet fuel all 3 correct (2) 1 or 2 correct (1)	2

Question 3

3(a)(iii)	H ₂	1
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Question 4

4(b)	(fractional) distillation	1
4(c)	refinery gas: heating / cooking (1) gasoline: fuel for cars / fuel for vehicles (1) waxes: lubricating (fraction) (1)	3

Question 5

5(a)(v)	A	1
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Question 6

6(d)	ethanol	1
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