

Question 1

1(e)	4 (Sm) (1) 2 (Sm ₂ O ₃) (1)	2
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Question 2

2(e)	2(H ₂ O) (1) H ₂ (1)	2
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Question 3

3(a)	1 mark each for any 2 of: <ul style="list-style-type: none"> poor thermal conductor / poor conductor of heat not malleable / brittle not ductile low melting point / low boiling point 	2
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Question 4

4(c)	iron(II) chloride / iron chloride (1) hydrogen (1)	2
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Question 5

5(a)	1 mark each for any three of: <ul style="list-style-type: none"> conduct electricity OR conduct heat (1) malleable (1) ductile (1) shiny / lustrous (1) 	3
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Question 6

6(a)	1 mark each for any three of: <ul style="list-style-type: none"> conduct electricity / conduct heat malleable ductile shiny / lustrous sonorous / rings when hit 	3
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Question 7

7(a)	metallic	1
7(b)(i)	lighted splint and (squeaky) pop	1
7(b)(ii)	14	1
7(b)(iii)	universal indicator	1
7(b)(iv)	2Na(s) + 2H ₂ O(l) → 2NaOH(aq) + H ₂ (g) M1 NaOH as product in equation (1) M2 fully correct equation (1) M3 state symbols (1)	3

Question 8

8(b)(i)	ductility	1
8(b)(ii)	electrons	1