

Question 1

1(d)	yttrium < nickel < samarium < strontium (2) if 2 marks not scored: 1 mark if one consecutive pair reversed OR strontium < samarium < nickel < yttrium	2
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Question 2

2(d)	niobium < nickel < iron < magnesium (2) 1 mark if one pair reversed	2
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Question 3

3(d)	lead < nickel < iron < magnesium (2) if 2 marks not scored: 1 mark for 1 pair adjacent reversed OR magnesium < iron < nickel < lead	2
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Question 4

4(d)	mercury < tin < iron < magnesium (2) 1 mark if one pair reversed	2
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Question 5

5(c)(i)	cobalt < zinc < magnesium < barium if 2 marks not scored, 1 mark for all reversed / one consecutive pair reversed	2
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Question 6

6(c)	copper , zinc , magnesium , potassium (2) if 2 marks not scored: 1 mark for one consecutive pair reversed	2
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Question 7

7(e)	tin < nickel < magnesium < sodium (2) IF two marks not scored, 1 mark for one adjacent pair reversed.	2
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Question 8

8(e)	M1 aluminium oxide layer (1) M2 (oxide layer) is unreactive (1)	2
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Question 9

9(c)(i)	iron is more reactive than copper	1
9(c)(ii)	$\text{Fe} + \text{CuSO}_4 \rightarrow \text{Cu} + \text{FeSO}_4$	1
9(c)(iii)	electrolysis	1

Question 10

10(b)(i)	any metal above zinc in reactivity series	1
10(b)(ii)	any metal below iron in reactivity series	1