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Cambridge International General Certificate of Secondary Education

MARK SCHEME for the October/November 2015 series

0620 CHEMISTRY

0620/52 Paper 5 (Practical), maximum raw mark 40

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Abbreviations used in the Mark Scheme

- ; separates marking points
- / separates alternatives within a marking point
- () the word or phrase in brackets is not required but sets the context
- **A** accept (a less than ideal answer which should be marked correct)
- **I** ignore (mark as if this material were not present)
- **R** reject
- ecf credit a correct statement that follows a previous wrong response
- ora or reverse argument
- owtte or words to that effect (accept other ways of expressing the same idea)

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Question	Answer	Marks	Guidance
1(d)	time boxes correctly completed, ascending in magnitude; in seconds;	**3** **1**	**I:** decimal places if given
1(e)	any two from: • effervescence / bubbles; • lighted splint pops; • temperature increased;	**2**	
1(f)	points correctly plotted: 4 correct = 2 3 correct = 1 2 or fewer correct = 0 smooth line graph;	**2** **1**	
1(g)(i)	value from the graph quoted; clearly shown on the graph;	**1** **1**	
1(g)(ii)	value from the graph quoted; extrapolation shown clearly;	**1** **1**	
1(h)	idea of fair test / comparability;	**1**	**A:** variable was sulfuric acid
1(i)(i)	exothermic / redox / displacement;	**1**	**I:** neutralisation
1(i)(ii)	hydrogen;	**1**	
1(i)(iii)	values halved;	**1**	**A:** smaller temperature change
1(j)	*apparatus* gas syringe / measuring cylinder over water / thermometer; *measurements* volume of gas / temperature of reaction; over time;	 **1** **1** **1**	

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Question	Answer	Marks	Guidance
2(a)	yellow / green;	**1**	**R:** precipitate / solid compare with Supervisor's result
2(b)	white; precipitate;	**1** **1**	
2(c)	green precipitate; brown colour on sides / top of tube;	**1** **1**	
2(d)	green precipitate;	**1**	
2(e)	(pink to) colourless; brown; precipitate;	**1** **1** **1**	
2(f)	white precipitate;	**1**	
2(g)	brown precipitate; bubbles; litmus paper turns blue / pH 10–12;	**1** **1** **1**	**I:** black
2(h)	yellow; precipitate;	**1** **1**	
2(i)	iron; (II); chloride;	**1** **1** **1**	
2(j)	silver / lead; nitrate;	**1** **1**	

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