Redox

Mark Scheme

Level	IGCSE	
Subject	Chemistry	
Exam Board	CIE	
Topic	Chemical Reactions	
Sub-Topic	Redox	
Paper Type	Alternative to Practical	
Booklet	Mark Scheme	

Time Allowed: 26 minutes

Score: /21

Percentage: /100

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Question	Answer	Marks	Guidance
1	step 1 add copper oxide or catalyst to hydrogen peroxide; measure volume of gas/mass loss/collect gas/count bubbles; over time; known volume of hydrogen peroxide; compare to hydrogen peroxide on its own; test gas with glowing splint; splint relights;		
	step 2 filter copper(II) oxide; dry; weigh; compare to original mass; OR filter (copper(II) oxide)/evaporate to dryness; add to hydrogen peroxide; measure rate of reaction; compare to first experiment;	max 8	

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2			lable of results		
			correct burette readings in table (3) i.e. 16.8, 17.1 and 25.5	or 17.2, 18.9, 26.5	
			Differences correctly completed (1) i.e. 8.4	Difference 7.6	[4]
(a)	(a)	(i)	Experiment 1		11,
	()	(ii)	twice volume/more than twice as much		
		(iii)	Solution B was 2x (1) concentration ot C (1)	or similar	11 [/] 12]
		` ,	B more concentrated than C (1 only€		•
		(iv)	volume A = $33.6 (1) \text{ cm}^3 (1)/34.4 \text{ cm}$		
		` ,	2x iodine produced (1)		[3]
	(b)		reference to accuracy (1) indicator (1)/easier $\underline{\text{not}}$ test for J_i $\max 2$	to see	[2]