Diffusion, Brownian Motion, Solids/Liquids/Gases

Mark Scheme

Level	IGCSE
Subject	Chemistry
Exam Board	CIE
Topic	The Particulate nature of matter
Sub-Topic	Diffusion, Brownian Motion, Solids/Liquids/Gases
Paper Type	Alternative to Practical
Booklet	Mark Scheme

Time Allowed: 46 minutes

Score: /38

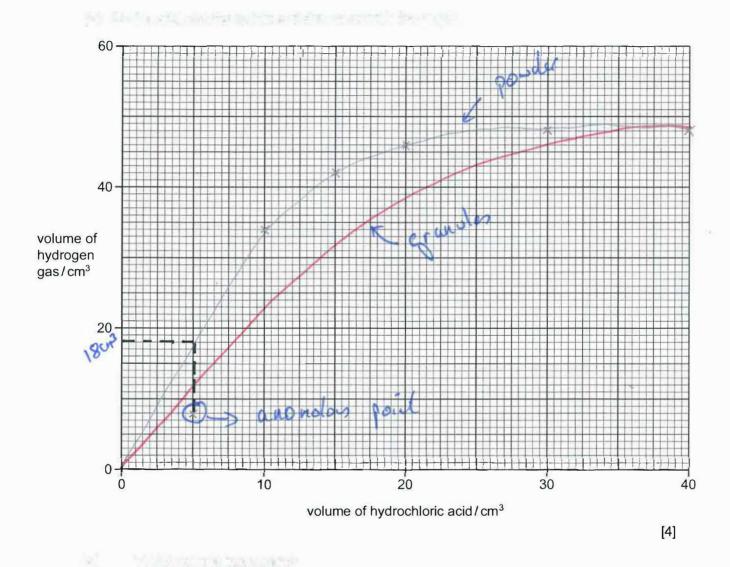
Percentage: /100

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1	(a	0, 8	umes of hydrogen completed correctly (3) 3, 34, 42, 46, 48, 48 dance: 7 correct (3); 6 correct (2); 5 correct (1); 4 or fewer correct (0)	[3]
	(b)	•	nts plotted correctly including origin (3) dance: 7 correct (3); 6 correct (2); 5 correct (1); 4 or fewer correct (0)	
		sm	ooth curve missing anomalous point (1)	[4]
	(c)		point at 5 cm ³ / 8 cm ³ H ₂ / second point (1)	[1]
		(ii)	leak / loss / escape of gas or wrong amount / too little HC / or zinc (1) allow: syringe sticking	[1]
		(iii)	reading from graph (1) ± half small square	
			indication on graph (1)	[2]
	(d)	exc	ess acid (1)	
			zinc reacted (1) w: used up	[2]
	(e)	ske	tch curve identical (2)	
			erent curve levelling out at 48 cm³ (1) e: must be some indication of a second curve	[2]

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2	(a	arrow under copper oxide (1)	[1]
	(b)	black (1) to brown/red (1)	[2]
	(c)	diagram of tube entering test-tube or similar in beaker of cold water/ice/Liebig condenser (1)	[2]
		labelled water/ice/condenser (1)	
	(d)	extinguished/goes out (1) not : no effect/no reaction	[1]
3	(a	flask (1) tap/separating/dropping funnel (1) not burette	
		gas jar (1) accept measuring cylinder	[3]
	(b)	gas should be collected downwards owtte (1)	[1]
	(c)	to remove impurities/water (1)	[1]
4	(a)	volumes completed correctly 0, 60, 68, 95, 98, 99, 100 —1 for each incorrec	[4]
	(b)	points plotted correctly (3) —1 for each incorrec smooth curve (1)	[4]
	(c)	point at 2 minutes (1) off curve owtte (1)	[2]
	(d)	steeper curve (1) levels out at same volume (1)	[2]