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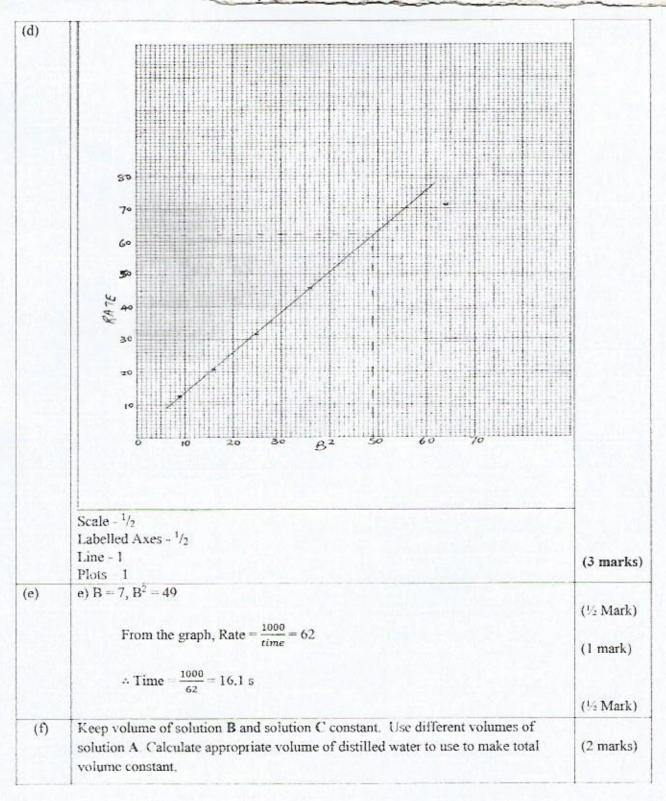
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## 5.5.3 Chemistry Practical Paper 3 (233/3)

(a)	Temperature	e of final mixture 22	2,5 °C		(1 mark)
(b)	Table 1				
	Experime	Time			
	nt	(seconds)			
	1	14.1			1000
	2	22.0			
	3	32.0			
	4	49.0			
	5	78.2			
	Complete tal	Complete table			
	Accuracy				
(c)	Trend				
(c)	Trend				
c)	Trend			<sup>1/</sup> 2 mark	
c)	Trend	periment 1 2	B <sup>2</sup>	$\frac{1}{2} \operatorname{mark}$ $\frac{1}{2} \operatorname{mark}$ $\operatorname{Rate} = \frac{1000}{time}  \mathrm{s}^{-1}$	
(c)	Trend	periment 1 2 3	B <sup>2</sup> 64 36 25	Rate = $\frac{1000}{time}$ s <sup>-1</sup> 70.9 45.5 31.3	
(c)	Trend	periment  1 2 3 4	B <sup>2</sup> 64 36 25 16	$Rate = \frac{1000}{time} \text{ s}^{-1}$ $70.9$ $45.5$ $31.3$ $20.4$	
(c)	Trend	periment 1 2 3	B <sup>2</sup> 64 36 25	Rate = $\frac{1000}{time}$ s <sup>-1</sup> 70.9 45.5 31.3	
(c)	Trend  Table 2  Exp  Note: All po  Correeach	periment  1 2 3 4 5	B <sup>2</sup> 64 36 25 16 9 line except for B = 8, 1	$\frac{1}{2} \operatorname{mark}$ $\frac{1}{2} \operatorname{mark}$ $\operatorname{Rate} = \frac{1000}{time}  \mathrm{s}^{-1}$ $70.9$ $45.5$ $31.3$ $20.4$ $12.8$	

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	Observations	Inferences
2 a)	-red litmus paper turns blue - white fumes which form a white solid on the sides of the test tube.  OR	- an ammonium salt <b>OR</b> basic gas <b>OR</b> NH <sup>+</sup> ions present.
	the white solid sublimes. (1mark)	(1mark)
b) (i)	Observations	Inferences
	No white precipitate	Zn <sup>2+</sup> /Pb <sup>2+</sup> Al <sup>3+</sup> / Mg <sup>2+</sup> / Ca <sup>2+</sup> ions absent
	(1 mark)	(½ each, Maximum 2 marks)
	Observations	Inferences
(ii)	No white precipitate	$SO_4^2/SO_3^2/CO_3^2$ ions absent
	(1 mark)	(1 mark for all three ½ mark for two)
	Observations	Inferences
(iii)	White precipitate (½ mark), which dissolves on warming (½ mark)	Cl or Br ions present
Trans	(1 mark)	(1 mark)
	Observations	Inferences
(iv)	Colourless solution turns yellow (1 mark) Yellow colour persists OR no blue colour with starch. (1 mark)	Br ions present
Artiu a pe	(2 marks)	(1 mark)
2(c) i	Cation : NH4 <sup>+</sup>	(½ mark)
ii	Anion : Br	(½ mark)

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3 a)	Observations	Inferences
	Burns with a yellow luminous flame	Long chain hydrocarbon OR unsaturated compound
	(1 mark)	(1 mark)
(b)	Observations	Inferences
	Two layers formed (1 mark)  OR Q not soluble/immiscible in water.	Non - polar compound
	(1 mark)	(1 mark)
(c)	No effervescence	Q is not acidic (1 Mark) OR Absence of carboxylic acid OR RCOOH/H <sup>+</sup> /H <sub>3</sub> O <sup>+</sup> absent.
	(1 mark)	(1 mark)
(d)	Observations	Inferences
	Bromine water not decolourised	Alkene/alkyne absent (1 mark)  C= C / -C=C -  absent
	(1 mark)	(1 mark)
(e)	Observations	Inferences
	Orange colour persists OR No green colour formed	Alcohol absent OR R-OH absent
	(1 mark)	(1 mark)

