

Question 1

Question	Answer	Marks
1 (a)	Any three from: <ul style="list-style-type: none"> • crystal dissolves • (cobalt(II) chloride) particles go from close together to spread out / particles go into solution / particles go into the water • diffusion • random movement of particles / particles move anywhere (in the liquid) / particles move in all directions • particles collide / particles bounce off each other • (bulk) movement of particles from higher to lower concentration / movement of particles down a concentration gradient 	3

Question 2

2 (c)	1 mark each for any 3 of: <ul style="list-style-type: none"> • bromine particles escape from liquid • diffusion • particles in (constant) movement / particles collide • (movement of particles) is random / in every direction • particles spread out • particles (spread) from higher concentration to lower concentration 	3
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Question 3

3 (e)	chlorine	1
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Question 4

4 (e)	neon	1
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Question 5

5(e)(i)	CH ₄	1
5(e)(ii)	lowest relative molecular mass	1