

Cambridge IGCSE – Mark Scheme
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Question 1	Answer	Marks
1(a)	(volume) decreases	1

Question 2

2(c)	motions: (only) vibrates (1) separation: close together / touching (1)	2
2(d)(i)	solid has a definite shape / solid has a fixed shape / liquid has no definite shape / liquid takes the shape of its container (1) solid does not flow (over a surface easily) / liquid flows (easily over a surface) / solid does not spread out (over a surface) / liquid spreads out (over a surface) (1)	2

Question 3

3(a)(iii)	arrangement: irregular / no (particular) arrangement (1) motion: sliding over each other	2
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Question 4

4(c)(iv)	1 mark each for any 3 of: <ul style="list-style-type: none"> • evaporation (of ammonia) • diffusion (molecules) • molecules in (constant) movement / molecules collide / hit / molecules travel / molecules move (rapidly) • (movement of) molecules is random / in every direction • molecules spread out / molecules mix • molecules hit / reach litmus paper • (molecules spread) from higher concentration to lower concentration / down concentration gradient 	3
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Question 5

Question	Answer	Marks
5(a)	1 mark each for any two of: <ul style="list-style-type: none">• has a definite volume / fixed volume• takes the shape of its container• flows over a surface / can be poured over a surface	2
5(b)	A: freezing (1) B: evaporation / boiling (1)	2

Question	Answer	Marks
5(c)	liquid bromine: arrangement: irregular / no (particular) arrangement (1) motion: sliding / moving (over each other) (1) bromine gas: arrangement: irregular / no (particular) arrangement (1) motion: fast / rapid / move everywhere (1)	4
5(d)	volume increases	1

Question 6

Question	Answer	Marks
6(a)(ii)	volume increases (as temperature increases)	1
6(a)(iv)	arrangement: irregular / random (1) separation: far apart (1)	2

Question 7

Question	Answer	Marks
7(a)		2
7(b)	separation: liquid: close together / some touching (1) gas: far apart (1) motion: liquid: sliding over each other / restricted movement (1) gas: moving freely (1)	4

Question 8

Question	Answer	Marks
8(a)(i)	1 melting	1
	2 condensing	1
	3 freezing	1
	4 boiling OR evaporation	1
8(a)(ii)	Any one from: <ul style="list-style-type: none"> boiling happens at a specific temperature evaporation happens over a range of temperatures evaporation is a surface process boiling happens throughout the liquid 	1
8(b)	<i>separation</i> : touching	1
	<i>arrangement</i> : regular	1
	<i>motion</i> : vibrate	1