

GCSE Chemistry A (Gateway Science) J248/03 C1-C3 and C7 Higher (Higher Tier)

Question Set 1

Multiple Choice Questions

C1: Particles

1 The atomic radius of a helium atom is 0.031 nm.

What is the atomic radius of a helium atom in standard form?

- **A** 3.1×10^{-1}
- 3.1 × 10-2 nm
- **B** 3.1×10^{-2}
- **C** 3.1×10^{-3}
- **D** 3.1×10^{-4}

Your answer



Niels Bohr was involved in the development of the atomic model.

Which of these statements describes his work?

- **A** He developed the idea of a nuclear atom.
- **B** He developed the plum-pudding model of the atom.
- **C** He stated that atoms were like tiny solid balls.
- **D** He stated that electrons exist in fixed energy levels.

Your answer



[1]

[1]

3 What is the best description of the particles in a liquid?

	Distance between particles	Movement of particles
Α	close together	in continuous random motion
В	close together	vibrating about a fixed point
С	far apart	in continuous random motion
D	far apart	vibrating about a fixed point

Your answer



[1]

- What is the approximate size of an atom?
 - A 3×10^{-1} metres
 - **B** 3×10^{-5} metres
 - **C** 3×10^{-9} metres
 - **D** 3×10^{-13} metres

Your answer



Total Marks for Question Set 1: 4

[1]

The Periodic Table of the Elements

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				10	⊢					n palladium 9 106.4				⊢		-
				11	59	J.	00pper 63.5	47	Ag	sliver 107.9	79	Αu	gold 197.0	111	Rg	roentgenium
				12	30	Zu	zino 65.4	48	ၓ	cadmium 112.4	80	Нg	mercury 200.6	112	ပ်	copernicium
(3)	5	5 B boron 10.8	13	At aluminium 27.0	31	g	gallium 69.7	49	드	indium 114.8	81	11	thalfum 204.4			
(4)	4	6 C carbon 12.0	4 :0	silicon 28.1	32	ge	germanium 72.6	20	S	th 118.7	82	Pb	lead 207.2	114	F1	flerovium
(2)	7.	7 N nitrogen 14.0	15	phosphorus 31.0	33	As	arsenic 74.9	51	Sb	anfmony 121.8	83	ö	bismuth 209.0			
(9)	16	8 O 0 16.0	16	suffur 32.1	34	Se	selenium 79.0	52	Тe	tellurium 127.6	84	Po	polonium	116	^	Evermorium
(2)	14	9 F fluorine 19.0	7	chlorine 35.5	35	ä	promine 79.9	53	-	lodine 126.9	85	At	astatine			
	18 Hellum 4.0	10 Ne	18	Ar argon 39.9	36	<u>ب</u>	krypton 83.8	54	Xe	xenon 131.3	98	R	radon			



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