

AS Level Chemistry A

H032/01 Breadth in chemistry

MCQ Question Set 3 3.1 The periodic table

Multiple Choice Questions

	A silicon -> Macromolecular - strong avalent bonds					
	B phosphorus ₁					
	c sulfur } simple molecular - weak intermolecular force	ς				
	D chlorine	_				
	Youranswer	[1]				
2.	What is the best explanation for the trend in boiling points down the halogen group?					
	A The covalent bonds become stronger.					
	B The hydrogen bonds become stronger.					
	C The permanent dipole–dipole interactions become stronger.					
	D The induced dipole–dipole interactions (London forces) increase.					
	Your answer	-41				
3.	Which silver compound is insoluble in concentrated NH ₃ (aq)?	[1]				
	A AgNO ₃					
	B AgCl					
	C AgBr					
	D AgI					
	Your answer	[41]				
4.	What determines the order of elements in the Periodic Table?	[1]				
	A first ionisation energy					
	B number of electrons in the outer shell					
	C number of protons in the nucleus					
	D relative atomic mass					
	Your answer	[1]				

Which element has the highest melting point?

1.

	1st	2nd	3rd	4th	5th				
	496	4563	6913	9544	13352				
biggest jump What is the formula of a chloride of Y?									
	A YCl	Y is in arough $1 \Rightarrow Y^{\dagger}$				1-			
	•			•					
	C YCl ₃								
	D ICt ₂	ļ							
	Yourans	ver /	4			[1]			
	Which element has induced dipole—dipole interactions (London forces) in its solid lattice?								
	A boro	n							
	B mag	nesium							
	C silico	n							
	D sulfu	ır							
	Yourans	wer				[1]			
7. V	Which statement about the periodic table is not correct?								
	A The elements are arranged in groups with similar chemical properties.								
	B The elements are arranged in periods with repeating trends in properties.								
	C The	elements are	arranged in ord	er of increasing	g atomic number	·.			
	D The grou		e halogen grou	p increase in re	eactivity down th	ıe			
	Your ans	wer				[1]			
Total Marks for Question Set 3: 6									

The first five successive ionisation energies of an element ${\bf Y}$ are shown below.

5.



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