Unit 1: Atomic structure

Subunit 1.3: Electrons, energy levels and atomic orbitals

Tonica	. O	ıost	ion No: 1										
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	1	Which ion has the same electronic configuration as Cl ⁻ ?											
		Α	F-	В	P ⁺	С	Sc ³⁺	I	D	Si ⁴⁺			
Topica	ΙQι	ıest	ion No: 2										
	2	The electronic configuration of the two outermost shells of an atom is $3s^23p^63d^54s^2$.											
		Wh	What is this atom?										
		A manganese											
		В	phosphorus										
		С	strontium										
		D	vanadium										
Topica	ΙQι	ıest	ion No: 3										
	3	Wh	Which statement about a 3p orbital is correct?										
		Α	It can hold a maximum of 6 electrons.										
		В	It has the highest energy of the orbitals with principal quantum number 3.										
		С	It is at a higher energy level than a 3s orbital but has the same shape.										
		D	It is occupied	d by on	e electror	ı in an isol	ated phosp	phorus a	atom				
Topica	ΙQι	ıest	ion No: 4										
	32 In which pairs do both species have the same number of unpaired el								l electr	ons in p	orbitals?		
		1	O and $C\mathit{l}^{\scriptscriptstyle{+}}$										
		2	F⁺ and Ga⁻										
		3	N and Kr ³⁺										
Topica	ΙQι	ıest	ion No: 5										
	32	Use of the Data Booklet is relevant to this question. In which pairs do both species have the same number of unpaired p electrons?											
		1	O and C $l^{\scriptscriptstyle +}$										
		2	F⁺ and Ga⁻										
		3	P and Ne⁺										

Topical Question No: 6

31 Use of the Data Booklet is relevant to this question.

In which pairs do both species have the same number of unpaired p electrons?

- 1 A l^{2-} and O⁺
- 2 N and Cl^{2+}
- **3** C and Cl^+

Answer Key

- 1. Error
- 2. Error
- 3. Error
- 4. Error
- 5. Error
- 6. Error