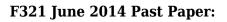
Abbreviations.	1	= alternative and acceptable answers for the same marking point
annotations and	10000	= separates marking points
conventions	NOT	= answers which are not worthy of credit
used in the	()	= words which are not essential to gain credit
	200	<ul> <li>(underlining) key words which <u>must</u> be used to gain credit</li> </ul>
Mark Scheme	ecf.	= error carried forward
	AW	= alternative wording
	ora	= or reverse argument

Question	Expected answers	Marks
1 (a)	8 1, 2 or 3 p orbitals are OK	[2]
(b)	d orbital 2 ✓ p sub-shell 6 ✓ 3rd shell 18 ✓	[3]
	energy $2s$ $\uparrow \downarrow$ $2p$ $\uparrow \downarrow \uparrow$ $\uparrow$ $\uparrow$ $\downarrow$ $\uparrow$ $\downarrow$ $\uparrow$ $\uparrow$ $\downarrow$ $\uparrow$ $\uparrow$ $\downarrow$ $\uparrow$ $\downarrow$ $\uparrow$ $\downarrow$ $\uparrow$ $\uparrow$ $\downarrow$ $\uparrow$ $\uparrow$ $\downarrow$ $\uparrow$ $\uparrow$ $\downarrow$ $\uparrow$ $\uparrow$ $\downarrow$ $\downarrow$ $\uparrow$ $\downarrow$ $\uparrow$ $\downarrow$ $\uparrow$ $\downarrow$ $\downarrow$ $\uparrow$ $\downarrow$ $\uparrow$ $\downarrow$ $\uparrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\uparrow$ $\downarrow$	
	2s and 2p labels ✓ Ignore any superscripted numbers. 8 electrons in correct levels with arrows correctly shown ✓	[2]
(d) (	<ul> <li>Energy change when each atom in 1 mole ✓     of gaseous atoms ✓     loses an electron ✓ (to form 1 mole of gaseous 1+ ions).</li> </ul>	[3]
(	<ul> <li>O<sup>2+</sup>(g) → O<sup>3+</sup>(g) + e<sup>-</sup> ✓ ✓</li> <li>1 mark for correct species; 1 mark for state symbols.</li> <li>No charge required on electron.</li> </ul>	[2]
	Ignore (g) on e	121

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### **Table of Contents F321 June 2014 Past Paper**

- 1. Understanding the eBook F321 June 2014 Past Paper
  - The Rise of Digital Reading F321 June 2014 Past Paper
  - Advantages of eBooks Over Traditional Books
- 2. Identifying F321 June 2014 Past Paper
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an F321 June 2014 Past Paper
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from F321 June 2014 Past Paper
  - Personalized Recommendations
  - F321 June 2014 Past Paper User Reviews and Ratings
  - F321 June 2014 Past Paper and Bestseller Lists
- 5. Accessing F321 June 2014 Past Paper Free and Paid eBooks

- F321 June 2014 Past Paper Public Domain eBooks
- F321 June 2014 Past Paper eBook Subscription Services
- F321 June 2014 Past Paper Budget-Friendly Options
- 6. Navigating F321 June 2014 Past Paper eBook Formats
  - o ePub, PDF, MOBI, and More
  - F321 June 2014 Past Paper Compatibility with Devices
  - F321 June 2014 Past Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of F321 June 2014 Past Paper
  - Highlighting and Note-Taking F321 June 2014 Past Paper
  - ∘ Interactive Elements F321 June 2014 Past Paper
- 8. Staying Engaged with F321 June 2014 Past Paper
  - $\circ$  Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers F321 June 2014 Past Paper
- 9. Balancing eBooks and Physical Books F321 June 2014 Past Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection F321 June 2014 Past Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine F321 June 2014 Past Paper
  - Setting Reading Goals F321 June 2014 Past Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of F321 June 2014 Past Paper
  - Fact-Checking eBook Content of F321 June 2014 Past Paper
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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