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	 (underlining) key words which <u>must</u> be used to gain credit
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) (Energy change when each atom in 1 mole ✓ of gaseous atoms ✓ loses an electron ✓ (to form 1 mole of gaseous 1+ ions). 	[3]
(O²⁺(g) → O³⁺(g) + e⁻ ✓ ✓ 1 mark for correct species; 1 mark for state symbols. No charge required on electron. 	[2]
	Ignore (g) on e	121

F321 Past Papers

Joacim Rocklöv

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Unveiling the Energy of Verbal Art: An Psychological Sojourn through F321 Past Papers

In some sort of inundated with displays and the cacophony of instantaneous conversation, the profound energy and emotional resonance of verbal art frequently diminish in to obscurity, eclipsed by the continuous assault of sound and distractions. Yet, nestled within the musical pages of **F321 Past Papers**, a interesting work of fictional brilliance that pulses with natural thoughts, lies an memorable trip waiting to be embarked upon. Published by a virtuoso wordsmith, this enchanting opus courses visitors on an emotional odyssey, gently exposing the latent potential and profound influence stuck within the complex web of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is key themes, dissect their charming publishing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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