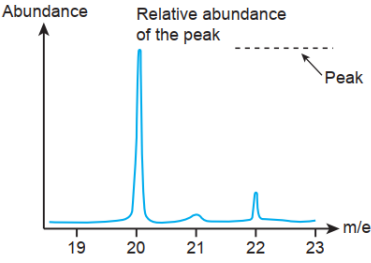
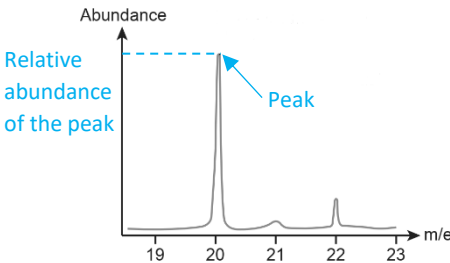
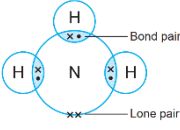
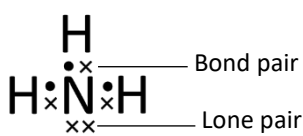
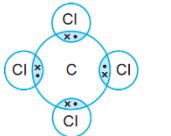
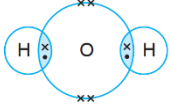
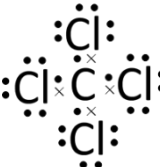
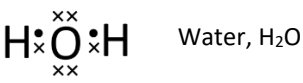
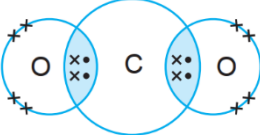
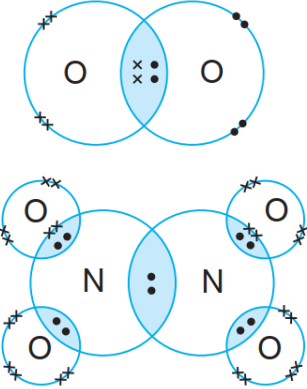
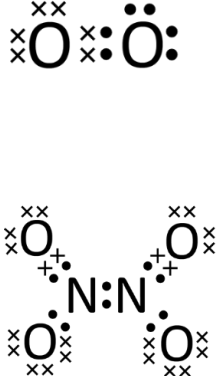
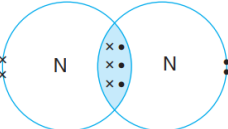
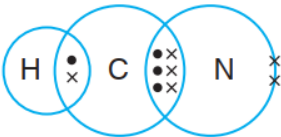
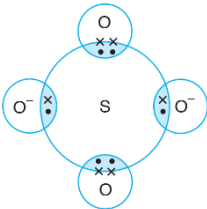
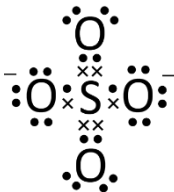
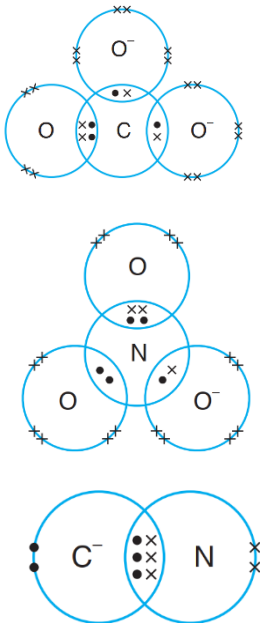
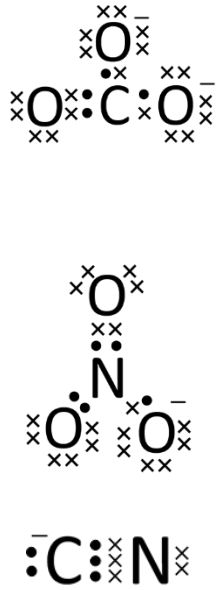
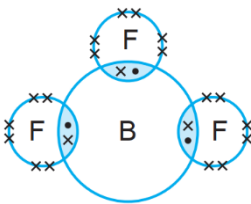
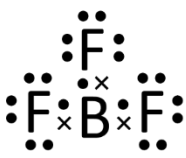
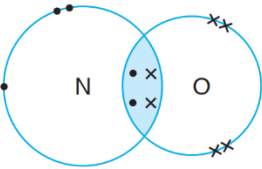
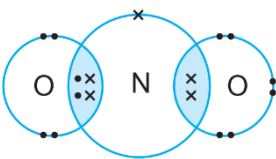
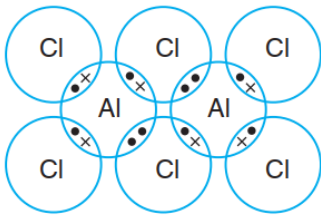
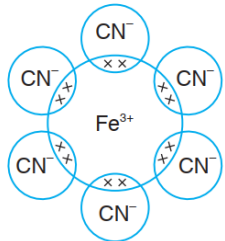
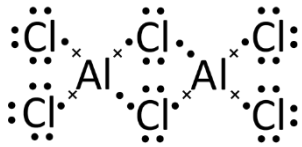
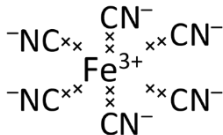


Page number	Section	Error	Correction
4	1.1	8. 	
63	3.2	4. 	
		5.  	 
64	3.2 <i>Double bonds</i>	1. 	
		3. 	
	<i>Triple bond</i>	2. 	

		4.		$\text{H}:\text{C}::\text{N}:$
65	Lewis Diagram for Ions	4.(b)		
		5.		
66	Exception to the Octet Rule	2 (a)		
		(b)		
		(c)		

67		Lewis diagram of SF ₆		
		5.		
86	Hybridisation and Multiple Bonds	1.		
88	The Triple Bond	1.		
		4.		
91	Predicting the Shapes of Molecules from the Lewis Diagram	2. (a)		
		3. (a)		
		4. (a)		
		5. (a)		
92				

95	<i>Effect of Lone Pairs on Bond Angle</i>	1.	$\begin{array}{c} \text{H} \times \cdot \times \text{H} \\ \times \cdot \times \\ \text{H} \times \cdot \times \text{H} \end{array}$ $\begin{array}{c} \text{H} \\ \times \cdot \times \\ \text{H} \times \cdot \times \text{H} \\ \times \times \end{array}$ $\begin{array}{c} \times \times \\ \text{H} \times \cdot \times \text{H} \\ \times \times \end{array}$
96	<i>Bond angle and Electronegativity</i>	 	$\begin{array}{c} \times \times \\ \text{H} \times \cdot \times \text{H} \\ \times \times \end{array}$ $\begin{array}{c} \times \times \\ \text{H} \times \cdot \times \text{H} \\ \times \times \end{array}$
108	<i>The Coordinate Bond</i>	6. (d)	$\begin{array}{c} \text{H} \\ \times \cdot \times \\ \text{H} \times \cdot \times \text{H}^+ \\ \times \cdot \times \\ \text{H} \end{array}$
		7.	$\begin{array}{c} \text{H}^+ \\ \times \cdot \times \\ \text{H} \times \cdot \times \text{H} \\ \times \cdot \times \end{array}$
		8.	$\begin{array}{c} \times \cdot \times \\ \text{Cl} \times \cdot \times \text{Cl} \\ \times \cdot \times \end{array}$

109		9.  10. 	 																																				
162	4.2 Reaction of Period 3 Elements with Oxygen	<table><tr><th>Element</th><td>...</td><td>Si</td><td>P</td><td>S</td></tr><tr><th>Oxide</th><td>...</td><td>SiO₂</td><td>P₄O₆ P₄O₁₀</td><td>SO₂ SO₃</td></tr><tr><th>Oxidation state of element</th><td>...</td><td>+4</td><td>+3 +5</td><td>+4 +6</td></tr><tr><th>Physical state</th><td>...</td><td>Liquid Gas</td><td>Gas</td><td>Gas Liquid</td></tr></table>	Element	...	Si	P	S	Oxide	...	SiO ₂	P ₄ O ₆ P ₄ O ₁₀	SO ₂ SO ₃	Oxidation state of element	...	+4	+3 +5	+4 +6	Physical state	...	Liquid Gas	Gas	Gas Liquid	<table><tr><th>Element</th><td>Si</td><td>P</td><td>S</td></tr><tr><th>Oxide</th><td>SiO₂</td><td>P₄O₆ P₄O₁₀</td><td>SO₂ SO₃</td></tr><tr><th>Oxidation state of element</th><td>+4</td><td>+3 +5</td><td>+4 +6</td></tr><tr><th>Physical state</th><td>Solid</td><td>Liquid Solid</td><td>Gas</td></tr></table>	Element	Si	P	S	Oxide	SiO ₂	P ₄ O ₆ P ₄ O ₁₀	SO ₂ SO ₃	Oxidation state of element	+4	+3 +5	+4 +6	Physical state	Solid	Liquid Solid	Gas
Element	...	Si	P	S																																			
Oxide	...	SiO ₂	P ₄ O ₆ P ₄ O ₁₀	SO ₂ SO ₃																																			
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Element	Si	P	S																																				
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Oxidation state of element	+4	+3 +5	+4 +6																																				
Physical state	Solid	Liquid Solid	Gas																																				
168	4.3 Acidic and Basic Properties of Period 3 Oxides	6.(b) P₄O₁₀(l) + 6H₂O(l) → 4H₃PO₄(aq)	6.(b) P₄O₁₀(s) + 6H₂O(l) → 4H₃PO₄(aq)																																				
225	7.2 Chemical Properties of Halides	7. 7. Similarly, heating solid potassium iodide with concentrated sulphuric acid produces hydrogen iodide (white fumes) and iodine (violet fumes). $\text{KI(s)} + \text{H}_2\text{SO}_4\text{(aq)} \xrightarrow{\Delta} \text{KHSO}_4\text{(aq)} + \text{HI(g)}$ $2\text{HI(g)} + \text{H}_2\text{SO}_4\text{(aq)} \xrightarrow{\Delta} \text{I}_2\text{(g)} + \text{SO}_2\text{(g)} + 2\text{H}_2\text{O(g)}$ <table><tr><th>Solid halide</th><td>NaCl</td><td>KBr</td><td>KI</td></tr><tr><th>Reaction with concentrated H₂SO₄</th><td>White fumes</td><td>White fumes + reddish brown fumes</td><td>White fumes + violet fumes</td></tr></table> Add one important equation 8. 8. As a result, concentrated sulphuric acid is not a suitable agent for the preparation of hydrogen bromide and hydrogen iodide. Instead, concentrated phosphoric acid, <u>H₃PO₄</u>, which is non-oxidising is used instead. $\text{KBr(s)} + \text{H}_3\text{PO}_4\text{(aq)} \xrightarrow{\Delta} \text{HBr(g)} + \text{KH}_2\text{PO}_4\text{(aq)}$ $\text{KI(s)} + \text{H}_3\text{PO}_4\text{(aq)} \xrightarrow{\Delta} \text{HI(g)} + \text{KH}_2\text{PO}_4\text{(aq)}$	Solid halide	NaCl	KBr	KI	Reaction with concentrated H ₂ SO ₄	White fumes	White fumes + reddish brown fumes	White fumes + violet fumes	8HI(g) + H₂SO₄(aq) → 4I₂(g) + H₂S(g) + 4H₂O(l) H₂S(g): The most reduced product with rotten egg smell. H₃PO₄																												
Solid halide	NaCl	KBr	KI																																				
Reaction with concentrated H ₂ SO ₄	White fumes	White fumes + reddish brown fumes	White fumes + violet fumes																																				