

Question Number	Answer	Mark
13	<p>The only correct answer is B (PCl₃F₂)</p> <p><i>A is incorrect because this is not symmetrical so must have a dipole</i></p> <p><i>C is incorrect because this is not symmetrical as the central equatorial chlorines are asymmetrical so must have a dipole</i></p> <p><i>D is incorrect because this is not symmetrical so must have a dipole</i></p>	(1)

Question Number	Answer	Mark
12	<p>The only correct answer is A (small large)</p> <p><i>B is incorrect because the ion needs a large charge</i></p> <p><i>C is incorrect because the ion needs a small radius and a large charge</i></p> <p><i>D is incorrect because the ion needs a small radius</i></p>	(1)

Question Number	Answer	Mark
14	<p>The only correct answer is C (SO₂)</p> <p><i>A is incorrect because although the bonds are polar, the dipoles cancel because the molecule is linear</i></p> <p><i>B is incorrect because although the bonds are polar, the dipoles cancel because the molecule is octahedral</i></p> <p><i>D is incorrect because although the bonds are polar, the dipoles cancel because the molecule is tetrahedral</i></p>	(1) Computer

Question Number	Answer	Mark
14	<p>The only correct answer is A (1,1-dibromopropane)</p> <p><i>B is not correct because the electronegative atoms are arranged symmetrically cancelling the dipoles</i></p> <p><i>C is not correct because the electronegative atoms are arranged symmetrically cancelling the dipoles</i></p> <p><i>D is not correct because the electronegative atoms are arranged symmetrically cancelling the dipoles</i></p>	(1)

Question Number	Answer	Mark
11	<p>The only correct answer is D (magnesium iodide)</p> <p><i>A is incorrect because Na⁺ has a smaller charge than Mg²⁺ and Cl⁻ is smaller than I⁻</i></p> <p><i>B is incorrect because Na⁺ has a smaller charge than Mg²⁺</i></p> <p><i>C is incorrect because Cl⁻ is smaller than I⁻</i></p>	(1)

Question Number	Answer	Mark
14	<p>The only correct answer is A (1,1-dibromopropane)</p> <p><i>B is not correct because the electronegative atoms are arranged symmetrically cancelling the dipoles</i></p> <p><i>C is not correct because the electronegative atoms are arranged symmetrically cancelling the dipoles</i></p> <p><i>D is not correct because the electronegative atoms are arranged symmetrically cancelling the dipoles</i></p>	(1)