

-O- A multiple choice quiz. Tick the boxes to record the answer

1.	Which compound is formed
	by transferring electrons?

Select 3 answers

- A \nearrow Potassium sulfide, K_2S
- Carbon monoxide, CO
- ^C Sodium oxide, Na₂O
- Sulphur trioxide, SO₃
- Magnesium bromide, MgBr₂
- Element X reacts sulphur to form a compound with formula X₂S. What is the correct electron arrangement of X? [Proton number:S=16]
 - 2.8.3
 - 2.8.1
 - 2.8.2
 - 2.8.4

- Which molecule has a double covalent bond between its atom? [Proton number: H=1, N=7, O=8, F=9]
 - Hydrogen
 - Nitrogen
 - **Fluorine**
 - **X** Oxygen
- How can dative bond be formed in hydroxonium ion H₃O⁺?
 - A X The pair of electrons not involved in covalent bond in water molecule, H₂O will be shared with hydrogen ion H⁺
 - Water molecule, H₂O and hydrogen ion, H⁺ will each share one electron
 - Water molecule, H₂O and hydrogen ion, H⁺ will each share two electrons

5.	How can dative bond be formed between ammonia, NH ₃ and hydrogen ion, H ⁺ to form ammonium ion, NH ₄ ⁺ ?	8.	Material Y is soluble in water and can be electrolysed in molten state. What is material Y?
	A Ammonia, NH ₃ and hydrogen ion, H ⁺ will each share one electron		A KCI B C ₂ H ₆
	The pair of electrons not involved in covalent bond in ammonia, NH ₃ will be shared with hydrogen ion, H ⁺	1 1 1 1 1 1 1 1	napthalene CaCO ₃
	Ammonia, NH ₃ and hydrogen ion, H ⁺ will each share two electron	9.	Ethanol can dissolved in water because its molecule can form hydrogen bond with water molecules.
6.	Which of the following has the highest boiling point?	! !	A True
	A H ₂		B False
	B \searrow NH ₃	10.	Metals are able to conduct electricity because of
	$D \bigcirc O_2$	1 1 1	A x sea of delocalised electrons
		 	B strong electrostatic force
7.	Xylene is an organic solvent. Which substance is soluble in xylene?	1 1 1 1 1	strong hydrogen bond weak van der waals forces
	A zinc sulphide	1 1 1	within the molecule
	B magnesium chloride	1 1 1	
	Sulphur dioxide	1 1 1	
	D ammonium nitrate	 	

