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

Sodium and chlorine react to form sodium chloride, according to the following chemical reaction. Which of the following statement is true based on the equation

$$2Na + Cl_2 \rightarrow 2NaCl$$

- Sodium, chlorine and sodium chloride has the same stability
- B Sodium and chlorine are less stable than sodium chloride
- Sodium and chlorine are more stable than sodium chloride

There are many different types of chemical bonds that exist in different substances. Which chemical bond is formed from the transfer of electrons?

A X Ionic Bond

**Dative Bond** 

**Covalent Bond** 

Metallic Bond

Atom X is very stable and does not form chemical bonds with any other atoms. Which of the following is the proton number of atom X?

16

20

6. Which of the following pairs of elements react to form ionic bonds.  Select 2 answers
A Sodium and magnesium  B Carbon and oxygen  C Magnesium and chlorine  D Sodium and sulphur
7. Diagram 1 shows the electron arrangement for a compound with formula JK <sub>2</sub> A Atom J: 12, Atom K: 7  B Atom J: 12, Atom K: 9  C Atom J: 20, Atom K: 7  D Atom J: 20, Atom K: 9

8.	Atom M and atom N reacts to produce an ionic compound with the formula M <sub>2</sub> N. If the proton		Which of the following molecules consist of double covalent bonds?
	number of atom N is 16, what is the proton number of atom M?		A Nitrogen gas, N <sub>2</sub>
	A 🔀 3		B Hydrogen chloride, HCl molecules
	B 6	1 1 1	Carbon dioxide, CO <sub>2</sub> molecules
	C 12	1 1 1	D tetrachloromethane, CCl₄ molecule
	D 17		CCI <sub>4</sub> molecule
			Which of the following molecule form hydrogen bonds between its molecules?
		1 1 1	A 🔀 Hydrogen fluoride, HF

Methane, CH<sub>4</sub>

Carbon Dioxide, CO<sub>2</sub>

Chloroform, CHCl<sub>3</sub>