

## Chemical Bonding

Sr	Questions	Answers Choice
1	The force of attraction between water molecules is.	A. Ionic bonding B. Covalent bonding C. Hydrogen Bonding D. Coordinate Covalent bonding
2	A covalent bond formed by the mutual sharing of two pairs of electrons between bonded atoms is called.	A. Single covalent bond B. Double covalent bond C. Triple covalent bond D. Polar covalent bond
3	Which types of bond is present between NH <sub>3</sub> and BF <sub>3</sub>	A. Covalent Bond B. Ionic Bond C. Coordinate covalent bond D. Metallic Bond
4	When an electronegative element combines with an electropositive element, the type of bonding is.	A. Covalent B. Polar Covalent C. Ionic D. Coordinate Covalent
5	Which among the following has a double covalent bond.	A. Ethane B. Methane C. Acetylene D. Ethylene
6	Nitrogen molecule contains.	A. Polar covalent bond B. Triple Covalent bond C. Double covalent bond D. Single covalent bond
7	Identify the compound which is not soluble in water	A. KBr B. MgCl <sub>2</sub> C. C <sub>6</sub> H <sub>6</sub> D. NaCl
8	Which of the following atoms will not form a cation or anion.	A. Atomic no. 16 B. Atomic no. 18 C. Atomic no. 17 D. Atomic No. 19
9	Covalent Bond involves the	A. Sharing of electrons B. Repulsion of electrons C. Acceptance of electrons D. Donation of electrons
10	Hydrogen bonding is always found in	A. Non-polar molecules B. Homoatomic molecules C. Polar Molecules D. All of the above
11	Metals have the tendency to lose electrons due to.	A. High ionization energies B. Low ionization energies C. Low electron affinity D. None of the above
12	A bond pair in covalent molecules usually has.	A. One electron B. Two electron C. Three electron D. Four electron
13	Triple covalent bond involves how many electrons.	A. Six B. Four C. Eight D. Three
14	The boiling point of water is	A. 0 °C B. 100 °C C. 35 °C D. 25 °C
15	Which element is capable of forming all the three types of bonds, covalent, coordinate, covalent or ionic.	A. Carbon B. Silicon C. Magnesium D. Oxygen

16	Which group of the periodic table has the tendency to gain electrons.	A. Group -1 B. Group -17 C. Group-2 D. Group -18
17	When molten copper and molten zinc are mixed together, they give rise to a new substance called brass. Predict what type of bond is formed between copper and zinc.	A. Ionic bond B. Coordinate Covalent bond C. Metallic bond D. Covalent Bond
18	Which compound contains both covalent and ionic bonds.	A. $MgCl_2$ B. $PCl_5$ C. $NH_4Cl$ D. $CaO$
19	Identify the covalent compound	A. $NaCl$ B. $H_2O$ C. $KF$ D. $MgO$
20	Which of the following is an example of polar covalent compound.	A. $Cl_2$ B. $H_2$ C. $O_2$ D. $HCl$