

Chemical Bonding

Sr	Questions	Answers Choice
1	Which types of attractive forces are present in ionic compounds.	A. Covalent bonds B. Electrostatic forces of attraction C. Metallic bonds D. Coordinate covalent bonds
2	The boiling point of alcohol is	A. 44°C B. 78°C C. 53°C D. 19°C
3	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
4	Atoms react with each other because.	A. they are attracted towards each other B. They are short of electrons C. They want to disperse D. They want to attain stability
5	Which compound contains both covalent and ionic bonds.	A. MgCl_2 B. PCl_5 C. NH_4Cl D. CaO
6	Non-polar compounds are insoluble in	A. Alcohol B. Benzene C. Ether D. Water
7	Every atom has a natural tendency to accommodate electrons in its valence shell	A. 2 or 6 B. 2 or 4 C. 2 or 8 D. 2 or 10
8	Silicon belongs to Group IVA. It haselectrons in the valence shell	A. 2 B. 6 C. 3 D. 4
9	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
10	In metals, the hold of nucleus over the valence shell electrons is weak due to.	A. High electron affinity B. Large sized atoms C. High ionization energies D. All of the above
11	A bond pair in covalent molecules usually has.	A. One electron B. Two electrons C. Three electrons D. Four electrons
12	Which ionic compound has the highest melting point.	A. RbCl B. KCl C. LiCl D. NaCl
13	Which of the following is an example of a polar covalent compound.	A. Cl_2 B. H_2 C. O_2 D. HCl
14	A bond formed between two non-metals is expected to be	A. Ionic B. Coordinate covalent C. Metallic D. Covalent
15	Identify the compound which is not soluble in water	A. KBr B. MgCl_2 C. C_6H_6 D. H_2O

D. NaCl

16 Metal 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

17 A covalent bond formed by two similar atoms is known as.

- A. Polar Covalent bond
- B. Metallic bond
- C. Double covalent bond
- D. Non-polar covalent bond

18 Dative covalent bonds are also known as

- A. Covalent bond
- B. Ionic Bond
- C. Metallic Bond
- D. Coordinate covalent bond

19 Which form of carbon is used as a lubricant?

- A. Coal
- B. Diamond
- C. Charcoal
- D. Graphite

20 Why is H_2O liquid while H_2S is a gas?

- A. Because in water, the atomic size of oxygen is smaller than that of Sulphur
- B. Because water can easily freeze into ice
- C. Because water is a polar compound and there exist strong forces of attraction between its molecules
- D. Because H_2O molecule is lighter than H_2S