

Chemical Bonding

Sr	Questions	Answers Choice
1	The boiling point of alcohol is	A. 44°C B. 78°C C. 53°C D. 19°C
2	The formation of ionic bond between two ions is due to.	A. Hydrogen bonding B. Metallic force C. Electrostatic forces D. All of the above
3	Octet rule is	A. Attainment of eight electrons in its valence shell B. Description of eight electrons C. Picture of electronic configuration D. Pattern of electronic configuration
4	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
5	Covalent bond is most commonly found between the elements of group	A. 1 to 13 B. 16 to 18 C. 13 to 17 D. 15 to 18
6	Which of the following atoms will not form cation or anion.	A. Atomic no. 16 B. Atomic no. 18 C. Atomic no. 17 D. Atomic No. 19
7	When an electronegative element combines with electropositive element, the type of bonding is.	A. Covalent B. Polar Covalent C. Ionic D. Coordinate Covalent
8	Which of the following bonds is expected to be the weakest.	A. $\text{Cl}-\text{Cl}$ B. $\text{C}-\text{C}$ C. $\text{F}-\text{F}$ D. $\text{O}-\text{O}$
9	Why is H_2O a 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 exists strong forces of attraction between its molecules D. Because H_2O molecule is lighter than H_2S
10	The compound formed by opposite charges are known as.	A. Metallic solids B. Ionic compounds C. Non-polar Covalent compound D. None of the above
11	Which form of carbon is used as a lubricant?	A. Coal B. Diamond C. Charcoal D. Graphite
12	Which compound contains both covalent and ionic bonds.	A. MgCl_2 B. PCl_5 C. NH_4Cl D. CaO
13	How many lone pairs are present on nitrogen in ammonia molecule.	A. One B. Two C. Three D. Four

14	How many valence shell electrons are there in Na ⁺ ion.	B. 9 C. 1 D. 10
15	Covalent Bond involves the	A. Sharing of electrons B. Repulsion of electrons C. Acceptance of electrons D. Donation of electrons
16	In the formation of AlF ₃ , aluminum atom loses.....electrons.	A. 1 B. 4 C. 3 D. 2
17	Hydrogen and Helium follow.	A. Octet rule B. Triple rule C. Duplet rule D. None of these
18	Ionic compound have	A. Low melting and high boiling points B. Low melting and boiling point C. High melting and boiling points D. High melting and low boiling points
19	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
20	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