

## Chemistry Fsc Part 1 Online Test

Sr	Questions	Answers Choice
1	Most of the reaction which give stable products are	A. Exothermic B. Endothermic C. Isothermal D. None of these
2	A material or a collection of materials which is under study is called	A. State function B. Degree and joule C. Degree and ergs D. Calorie and joule
3	The net heat change in a chemical reaction is same whether it is brought about in two or more different ways in one or several steps. It is known as	A. Henry's law B. Hess's law C. Joule's principle D. Law of combustion
4	Question Image	A. Heat of reaction B. Heat of sublimation C. Heat of neutralization D. Heat of combustion
5	For a given process, the heat change at constant pressure ( $q_p$ ) and at constant volume ( $q_v$ ) are related to each other as	A. $q_p = q_v$ B. $q_p < q_v$ C. $q_p > q_v$ D. $q_p = q_v/2$
6	Which of the following statement is contrary to the first law of thermodynamics	A. An equivalent amount of heat energy can neither be created nor destroyed B. One form of energy can be transferred into an equivalent amount of other kinds of energy C. In an adiabatic process, the work done is independent of its path D. Continuous production of mechanical work without supplying an equivalent amount of heat is possible
7	The change in heat energy of a chemical reaction at constant temperature and pressure is called	A. Enthalpy change B. Bond energy C. Heat of sublimation D. Internal energy change
8	Calorie is equivalent to	A. 0.4184 J B. 41.84 J C. 4.184 J D. 418.4 J
9	In endothermic reactions, the heat content of the	A. Products is more than that of reactants B. Reactants is more than that of products C. Both a and b D. Reactant and products is equal
10	If an endothermic reaction is allowed to take place very rapidly in the air, the temperature of the surrounding air	A. Remains constant B. Increase C. Decrease D. Increase a bit
11	If we want to change $O_2$ to $O_2^{-1}$ The electron is to be placed in	
12	VSEPR theory was proposed by	A. Nyholm and Gillespie B. Kossel C. Lewis D. Sidwick
13	The shape of $H_2O$ is	A. Tetrahedral B. Angular C. Trigonal planar D. Pyramid
14	Which of the following molecules has a coordinate covalent bond	A. $NH_4^+Cl^-$ B. NaCl C. HCl

D.  $\text{AlCl}_3$

15 The nature of bond in diamond is

- A. Electrovalent
- B. Metallic
- C. Coordinate covalent
- D. Covalent

16 Fluorine molecule ( $\text{F}_2$ ) is formed by the overlap of

- A. s - s orbital
- B. s - p orbital
- C. p - p head on overlapping of orbitals
- D. p - p parallel overlapping of orbitals

17 Which of the following is true for ionic compounds

- A. They are non-electrolytes in the molten state
- B. They have bonds which are directional
- C. They conduct electricity in solid state
- D. They are generally more soluble in polar solvents than in non-polar solvents