

ECAT Chemistry Chapter 1 Basic Concepts

Sr	Questions	Answers Choice
1	The negatively charged particles are called	A. Cation B. Radical C. Anion D. Positron
2	Which statement about molecule is incorrect ?	A. Molecules of a substance are similar B. Hemoglobin is a homo atomic molecules C. Oxygen molecule is a macro molecule D. It exist independently
3	The volume occupied by 1.4 g of N ₂ at S.T.P is	A. 2.24 dm ³ B. 22.4 dm ³ C. 1.12 dm ³ D. 112 cm ³
4	The value of R(General Gas Constant) is	A. $8.3134 \text{ JK}^{-1} \text{ mole}^{-1}$ B. $1.987 \text{ Cal K}^{-1} \text{ mole}^{-1}$ C. Both a and b D. $1.987 \text{ JK}^{-1} \text{ mole}^{-1}$
5	Objects of the size of an atom can be observed in	A. An electron microscope B. An x-ray spectrum C. Atomic absorption spectrum D. A visible spectrum

6	Smallest particle of an element which may or may not have independent existence is known as:	A. A molecule B. An ion C. An atom D. An electron
7	The percentage of H is the highest in	A. CH_4 B. NH_3 C. H_2SO_4 D. $\text{C}_6\text{H}_{12}\text{O}_6$
8	The number of subatomic particles in atoms sidcovered is more than:	A. 110 B. 100 C. 125 D. 90
9	A molecule of haemoglobin is made up if nearly	A. 10,000 atoms B. 50,000 atoms C. 2500 atoms D. 1500 atoms
10	When nitrogen is 5.6 grams in NO_2 . then number of moles of NO_2 is	A. 0.5 B. 0.4 C. 0.04 D. 0.05
11	Metal tend to lose electrons, becoming:	A. Metals B. Positively charged C. Negatively charged D. Metals
12	One of the following statements is incorrect	A. Actual yeild is always less than the theoretical yield B. The formula of a compound is not definite C. Law of conservation of mass is applied in stoichiometry D. Boyles law is applied in stoichiometry
13	One mole of SO_2 contains	A. 6.02×10^{23} atoms of oxygen B. 18.1×10^{23} , molecules of SO_2 C. 6.02×10^{23} atoms of sulphur D. 4 gram atoms of SO_2
14	An ion bearing positive charge is called:	A. Cation B. Positron C. Anion D. None of above
15	The amount of products obtained from the balanced chemical equation is regarded as	A. Theoretical yield B. Actual yield C. % yield D. Experimental yield
16	Which of the following compounds contains the highest percentage by mass of nitrogen?	A. Ammonia, NH_3 B. Ammonium carbamate, $\text{NH}_2\text{CO}_2\text{NH}_4$ C. Ammonium carbonate, $(\text{NH}_4)_2\text{CO}_3$ D. Hydrazine, N_2H_4
17	Al^{3+} is a symbol for aluminium	A. Atom B. Ion C. Cation D. Anion
18	The mass of sulphur which combines with 24 grams oxygen to form SO_2	A. 32 gram B. 24 gram C. 8 gram D. 12 gram
19	A species having positive or negative charge is called:	A. Electron B. Ion C. Proton D. Atom
20	One mole of ethanol and one mole of ethane have an equal	A. Mass B. Number of atoms C. Number of electrons

