

11TH CBSE SOME BASIC CONCEPTS OF CHEMISTRY TEST

- 1) One mole of CO_2 contains _____.
(a) 6.02×10^{23} atoms of C (b) 3 g of CO_2 (c) 6.02×10^{23} atoms of O (d) 18.1×10^{23} molecules of CO_2
- 2) 5.6 litres of oxygen at NTP is equivalent to _____.
(a) 1 mole (b) $\frac{1}{4}$ mole (c) $\frac{1}{8}$ mole (d) $\frac{1}{2}$ mole
- 3) How many grams are contained in 1 gram atom of Na?
(a) 13 g (b) 1 g (c) 23 g (d) $\frac{1}{23}$ g
- 4) 12 g of Mg will react completely with an acid to give: _____.
(a) 1 mole of O_2 (b) $\frac{1}{2}$ mole of H_2 (c) 1 mole of H_2 (d) 2 mole of H_2
- 5) Which of the following has the highest mass?
(a) 1 g atom of C (b) $\frac{1}{2}$ mole of CH_4 (c) 10 mL of water (d) 3.011×10^{23} atoms of oxygen
- 6) The empirical formula of sucrose is _____.
(a) CH_2O (b) CHO (c) $\text{C}_{12}\text{H}_{22}\text{O}_{11}$ (d) $\text{C}(\text{H}_2\text{O})_2$
- 7) The number of significant figures in 0.0101 is _____.
(a) 3 (b) 2 (c) 4 (d) 5
- 8) The number of grams of oxygen in 0.10 mol of $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$ is _____.
(a) 20.8 g (b) 18 g (c) 108 g (d) 13 g
- 9) The mass of an atom of nitrogen is _____.
(a) $\frac{14}{6.023 \times 10^{23}}$ (b) $\frac{28}{6.023 \times 10^{23}}$ g (c) $\frac{1}{6.023 \times 10^{23}}$ g (d) 14 amu
- 10) Which of the following statements about a compound is incorrect?
(a) A molecule of a compound has atoms of different elements
(b) A compound cannot be separated into its constituent elements by physical methods of separation
(c) A compound retains the physical properties of its constituent elements
(d) The ratio of atoms of different elements in a compound is fixed

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2 Marks

- 112) Convert the following into basic units:
 (i) 28.7 pm
 (ii) 15.15 pm
 (iii) 25365 mg
- 113) How many significant figures should be present in the answer of the following calculations?
 (i) $\frac{0.02856 \times 298.15 \times 0.112}{0.5785}$
 (ii) 5×5.364
 (iii) $0.0125 + 0.7864 + 0.0215$
- 114) Calculate the number of atoms in each of the following (i) 52 moles of Ar (ii) 52 u of He (iii) 52 g of He.
- 115) What is the SI unit of mass? How is it defined?
- 116) How are 0.50 mole Na_2CO_3 and 0.50 MNa_2CO_3 different?
- 117) If the speed of light is $3.0 \times 10^8 \text{ m s}^{-1}$, calculate the distance covered by light in 2.00 ns
- 339) A compound contains 4.07% hydrogen, 24.27% carbon and 71.65% chlorine. Its molar mass is 98.96 g. What are its empirical and molecular formulas?
- 340) Calculate the molarity of NaOH in the solution prepared by dissolving its 4 g in enough water to form 250ml. of the solution.
- 341) Round up the following upto three significant figures:
 (i) 34.216
 (ii) 10.4107
 (iii) 0.04597
 (iv) 2808
- 342) The density of 3 M solution of Na Cl is 1.25 g mL^{-1} . Calculate molality of the solution.
- 343) Calculate the mass of sodium acetate, CH_3COON required to make 500mL of 0.375 molar aqueous solution. Molar mass of sodium acetate is $82.0245 \text{ g mol}^{-1}$.

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