

## Stoichiometry

Sr	Questions	Answers Choice
1	A nceklaee has 6 g of diamonds in it . What are the numberof carbon atoms in it?	A. $3.01 \times 10^{23}$ B. $1.003 \times 10^{23}$ C. $12.04 \times 10^{23}$ D. $6.02 \times 10^{23}$
2	Empirical formula of acetic acid (CH <sub>3</sub> COOH) is	A. CHO B. CH C. CH <sub>2</sub> O D. None of these
3	What mass of 95% CaCO <sub>3</sub> will be required to neutralize 50 cm <sup>3</sup> of 0.5 M HCl solution.	A. 9.5 g B. 1.45 g C. 1.32 g D. 1.25 g
4	How many atoms are present in one gram of H <sub>2</sub> O?	A. $1002 \times 10^{23}$ atom B. $6.022 \times 10^{23}$ atom C. $0.334 \times 10^{23}$ atom D. $2.004 \times 10^{23}$ atom
5	1 gram formula of NaCl contan is grams.	A. 100 g B. 58.5 g C. 32 g D. 49 g
6	Formula of Ozone.	A. O <sub>2</sub> B. S <sub>8</sub> C. CO <sub>2</sub> D. O <sub>3</sub>
7	Whof the following represent sand?	A. NaCl B. CaCO <sub>3</sub> C. H <sub>2</sub> O D. CH <sub>2</sub> O
8	Mass of 3 moles of oxygen atoms is.	A. 64 g B. 16 g C. 32 g D. 48 g
9	If one mole of carbon contains x atoms what is the number of atoms contained in 12 g of Mg.	A. 1.5 x B. 0.5 x C. x D. 2x
10	What is the mass of 4 moles of hydrogen gas.	A. 1 g B. 1.008 g C. 8.064 g D. 4.032 g
11	The molecular mass of H <sub>2</sub> SO <sub>4</sub> is.	A. 9.8 g B. 98 amu C. 98 g D. 9.8 amu
12	The mass of one molecule of water is.	A. 18 g B. 18 mg C. 18 kg D. 18 amu
13	How many ataic mass units (amu) are there in one gram.	A. 1 amu B. $6.022 \times 10^{23}$ C. 10 amu D. $6.022 \times 10^{22}$
14	Empricial formula of sand is.	A. SiO <sub>2</sub> B. SiO <sub>3</sub> C. SiO <sub>4</sub> D. SiO
15	Whciah term is the same for one mole of oxgen and one mole of water.	A. atoms B. mass C. Molecules D. Volume

16	Avogadro was a scientist	A. Italian B. Greek C. German D. African
17	How many moles are there in 25 g of $\text{H}_2\text{SO}_4$ ?	A. 0.765 Moles B. 0.255 moles C. 0.4 moles D. 0.51 moles
18	A compound with chemical formula $\text{Na}_2\text{CX}_3$ has formula mass 106 amu. Atomic mass of the element X is.	A. 16 B. 23 C. 12 D. 106
19	Empirical formula of Benzene is.	A. $\text{CH}_2\text{O}$ B. $\text{CH}$ C. $\text{C}_2\text{H}$ D. $\text{CH}_2$
20	Without stoichiometry which industry cannot exist.	A. Meta B. Petroleum C. Leather D. Chemical