

Class 9 Atoms and Molecules MCQs

1. The atomic symbol of silver is —-----(a) Si (b) S (c) Au (d) Ag

Ans: (d) Solution: The atomic symbol of silver is Ag

- 2. A box contains some identical red colour balls labelled as A each weighing 2 g. Another box contains identical blue colored balls, labelled as B, each weighing 5 g. In the combinations AB,
 - AB_2 , A_2B and A_2B_3 which is applicable?
 - (a) Law of Definite proportion
 - (b) Law of multiple proportion
 - (c) Law of conservation of mass
 - (d) None of the above

Ans: (b)

Solution: According to the law of multiple proportion if an element forms more than one compound with another element for a given mass of an element, masses of other elements are in the ratio of the small whole number.

3. What is the value of Avogadro's number?

(a) 6.02 x 10 ⁻²³	(b) 6.02 x 10 ²³
(c) 6.02 x 10 ⁻²²	(d) 6.02 x 10 ²²

Ans: (b)

Solution: The value of Avogadro's number is 6.02 x 10²³

4. What is the chemical formula of sodium carbonate?

(a) Na ₂ CO ₃	(b) NaHCO ₃
(c) NaCO ₃	(d) Na ₂ HCO ₃

Ans: (a) Solution: The chemical formula of sodium carbonate is Na_2CO_3

- 5. Which of the following is the correct pair of atom and its atomic symbol?
 - (a) Sulphur Su
 - (b) Potassium P

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(c) Phosphorus -P (d) Sodium-S Ans: (c) Solution: The correct pair of atom and its atomic symbol is Phosphorus -P 6. How many moles are present in 40 g of He? (d) 10 moles (b) 20 moles (a) 5 moles (c) 6 moles Ans: (d) Solution: 1 mole of He = 4 gm. \Rightarrow 40 gm of He = 10 moles 7. Atomic mass of Chlorine is —----- (u) (a) 34 (b) 34.5 (c) 35 (d) 35.5 Ans: (d) Atomic mass of Chlorine is 35.5 u 8. 46 gm of sodium is equal to -(a) 7 moles (b) 1.5 moles (c) 2 moles (d) 1 mole Ans: (c) Solution: 1 mole of sodium = 23gm, 46 gm of sodium = 2 moles 9. The formula of Ammonium Sulphate is -(c) $(NH_4)_2SO_4$ (a) NH_4SO_4 (b) NH_4SO_2 (d) NH_2SO_4 Ans: (c) Solution: The formula of Ammonium Sulphate is (NH₄)₂SO₄. 10. The atomic symbol of Iron is -(a) I (b) Fe (c) Ir (d) Au

Ans: (b) Solution: The atomic symbol of Iron is Fe.