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) 6.02×10^{-23}

(b) 6.02×10^{23}

(c) 6.02×10^{-22}

(d) 6.02×10^{22}

Ans: (b)

Solution: The value of Avogadro's number is 6.02×10^{23}

4. What is the chemical formula of sodium carbonate?

(a) Na_2CO_3

(b) $NaHCO_3$

(c) $NaCO_3$

(d) Na_2HCO_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

(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?

(a) 5 moles

(b) 20 moles

(c) 6 moles

(d) 10 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 ————

(a) NH_4SO_4

(b) NH_4SO_2

(c) $(NH_4)_2SO_4$

(d) NH_2SO_4

Ans: (c)

Solution: The formula of Ammonium Sulphate is $(NH_4)_2SO_4$.

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.