BRAIN INTERNATIONAL SCHOOL

Chemistry Assignment Class: IX

NOV'24

CHAPTER 3: Atoms and Molecules

1. MULTIPLE CHOICE QUESTIONS:

(i) . What is the chemical formula of sodium carbonate?

(a) Na_2CO_3	(b) NaHCO ₃	(c) $NaCO_3$	(d) Na_2HCO_3
$(a) \operatorname{Iva}_2 \operatorname{CO}_3$	(0) Marico3	(C) Na CO_3	(\mathbf{u}) \mathbf{u}_{211} \mathbf{u}_{03}

(ii) 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
(iii) Atomic mass of	Chlorine is ——— (u)		
(a) 34	(b) 34.5	(c) 35	(d) 35.5

2. ASSERTION-REASON QUESTIONS:

Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below :

- (i) Both A and R are true and R is correct explanation of the assertion.
- (ii) Both A and R are true but R is not the correct explanation of the assertion.
- (iii) A is true but R is false.
- (iv) A is false but R is true.
- (a) Assertion : Atoms always combine to form molecule and ions.

Reason : Atoms of most element are not able to exist independently.

(b) Assertion : Atomicity of ozone is three while that of oxygen is two.

Reason : Atomicity is the number of atoms constituting a molecule.

3. Answer the following questions:

- 1. Explain the law of constant proportion.
- 2. Write the atomicity of Phosphorus and Nitrogen .
- 3. What is an ion ?
- 4. Define Valency and write the valency of the following :
 (i) Chlorine (ii) Aluminium (iii) Carbon (iv) Oxygen
- 5. What is a polyatomic ion ? Give an example.
- 6. What is formula unit mass ? How is it different from molecular mass?