

## FORMATIVE ASSESSMENT-3

Name:..... Section:..... Roll No:.....

Max.Marks:20

**I. Answer the following questions. Each carries four marks.****2 x 4 = 8 M**

- 1) Complete the following table. It contains the formulae of compounds formed by different anions and cations given.

Cations\Anions	$\text{Cl}^-$	$\text{O}^{2-}$	$\text{N}^{3-}$	$\text{SO}_4^{2-}$
$\text{Na}^+$	$\text{NaCl}$			$\text{Na}_2\text{SO}_4$
$\text{Mg}^{+2}$			$\text{Mg}_3\text{N}_2$	
$\text{Al}^{+3}$	$\text{AlCl}_3$			

- 2) Distinguish between electron, proton and neutron.

**II. Answer the following questions briefly. Each carries two marks.****2 x 2 = 4 M**

- 3) Complete the following table. And rewrite the answer.

Name	Symbol	Z (Atomic number)	A (Mass number)	N (Number of neutrons)
Oxygen	${}_8\text{O}^{16}$		16	
		9		10

- 4) Find the molecular mass of  $\text{CO}_2$  molecule.

(Atomic masses of carbon and oxygen are 12 and 16 respectively).

**III. Answer the following in one or two sentences. Each carries one marks.****2 x 1 = 2 M**

- 5) What do you understand about  $\text{N}_2$  and N ?

- 6) Write any two applications of Isotopes.

**IV. Choose the correct choice and write down in the given brackets.****6 x 1 = 6 M**

- 7) Valency of Argon

[      ]

A. 0

B. 1

C. 2

D. 2

- 8) Latin name of Lead

[      ]

A. Aurum

B. Ferrum

C. Plumbum

D. Kalium

- 9) Law of Conservation of mass was proposed by .....

[      ]

A. John Dalton

B. Antoine Lavoiser

C. John Berzilius

D. Robert Boyle

- 10) This is not a sub atomic particle

[      ]

A. Electron

B. Proton

C. Neutron

D. Atom

- 11) Match the following.

Set-I

Set-II

(i) Rutherford

(a) Planetary model

(ii) J.J.Thomson

(b) Plum pudding model

Choose the correct answer:

[      ]

A. (i)-a, (ii)-b

B. (i)-b, (ii)-a

C. (i)-a, (i)-b

D. (ii)-a, (ii)-b

- 12) Which among the orbits K, L, M, N and O has least energy ?

[      ]

A. K

B. O

C. M

D. N

