

## 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) Write a brief notes about four quantum numbers.  
 2) Complete the following table (As per Modern periodic table).

Element	Atomic number	Electron configuration	Period	Group
Oxygen	8			
Sulphur				16
Calcium			3	
Argon		$1s^2 2s^2 2p^6 3s^2 3p^6$		

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

- 3) Draw a neat diagram that shows the order of energy of orbitals.  
 4) Write your opinion on the place of Hydrogen in modern periodic table.

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

- 5) The wave length of a radio wave is 1m. Find its frequency.  
 6) What do you understand about electro negativity ?

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

7) The maximum and minimum values of "l" are ..... [     ]

- A. 0 , n                      B. n , 0                      C. 0 , (n-1)                      D. (n-1) , 0

8) The maximum number of electrons that to be accommodated in L-shell [     ]

- A. 2                      B. 8                      C. 10                      D. 18

9) The maximum number of colours present in a Rainbow [     ]

- A. 5                      B. 7                      C. 8                      D. 6

10) Match the following.

Set-I

- (i) Fluorine  
 (ii) Caesium

Set-II

- (a) Highest electro positivity  
 (b) Highest electro negativity

Choose the correct answer : [     ]

- A. (i)-a, (ii)-b                      B. (i)-a, (ii)-a                      C. (i)-b, (ii)-a                      D. (i)-b, (ii)-b

11) The short period in modern periodic table contains ..... elements. [     ]

- A. 8                      B. 2                      C. 10                      D. 18

12) Identify the true statement. [     ]

- A. VII A group elements are Halogens                      B. VI A group elements are Lanthanides  
 C. II A group elements are alkali metals                      D. f – block elements are transition metals

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