SLIP TEST- 8
CHAPTER- 8 : STRUCTURE OF ATOM

Name:…….. Section:……. Roll No:……..... Max.Marks:20

……

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

1) Draw the neat diagrams of five d- orbitals.

2) Explain Aufbau's principle with an example.

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

3) If l = 3 , what are the maximum and minimum limits of m_l values?

4) Write the electronic configurations of the following elements?

(i) Copper (ii) Nitrogen

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

5) Name the seven colours in a rain bow.

6) Define emission spectrum.

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

7) The maximum number of electrons that can be accommodated in M- shell of an atom is [ ]

A. 2 **B.** 32 **C.** 18 **D.** 8

8) …… Explain the shape of the orbital [ ]

A. n **B.** l **C.** m_l **D.** m_s

9) …… number of p-orbitals present in K- shell [ ]

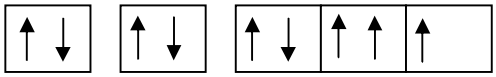
A. 1 **B.** 3 **C.** 5 **D.** 0

10) Neils Bohr got Nobel prize in the year of [ ]

A. 1913 **B.** 1916 **C.** 1922 **D.** 1934

11) Value of Planck's constant is [ ]

A. 6.6×10^{-34} **B.** 6.626×10^{-34} **C.** 6.6×10^{-37} **D.** 6.602×10^{-34}

12) Configuration of Oxygen (Z=8) is given as  [ ]

Which rule does not support this …….

A. Aufbau's rule **B.** Hund's rule

C. Pauli's rule **D.** All of the above

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