PRACTICE TEST – X-CLASS(PHYSICAL SCIENCES)(Classification of Elements)

ZPSS THALLAMPADU

TIME: 1hr. **NAME OF THE STUDENT**_____ **ROLL No. _____** **Max.Marks: 20**

Answer all the questions.

1. Write down the characteristics of the elements having atomic number 20.

   Electronic configuration: Period number:

   Group number : Element family :

   No. of valence electrons: Valency :

   Metal or non-metal:

2.

Group	1	2	13	14	15	16	17	18
Period								
I	a							j
II	b	e				g	h	k
III	c			f			i	l
IV	d							

   a) Which element has least atomic size “e” or “h”?
   b) In the above table, Which element has only one electron?
   c) What is the valency of element ‘ f ‘ ?
   d) Write the electronic configuration of the element in III period and 18 group

3. Given below is the electronic configuration of elements A, B, C, D.

   A. $1s^2\ 2s^2\ 2p^1$ 1. Which are the elements coming within the same period

   B. $1s^2\ 2s^2\ 2p^5$ 2. Which are the ones coming within the same group?

   C. $1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6$ 3. Which are the noble gas elements?

   D. $1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^1$ 4. To which group and period does the element ‘C ‘belong

4. An element **X** belongs to 3rd period and group **VIA** of the periodic table. State

   a) Write the electronic configuration b)The no. of valence electrons

   c) The valency d) Whether it is metal or a non metal.

5. Write the electronic configuration of the elements having atomic numbers 6, 11, 21, 38. On the basis of that predict to which block the elements belongs to?

6. Write the periodic property. How do the following properties change in a group and period? Explain.

   (a) Atomic radius (b) Ionization energy

7. The number of elements present in the 2nd, 3rd, 4th and 5th periods of the modern periodic table are: ( )

   a. 2,8,8,18 b. 8,8,18,32 c. 8,8,18, 18 d. 8,18,18,32

8. An element has 13 protons. The group and period to which it belongs: ( )

   a. 3rd period and 13th group b. 2nd period and 13th group

   c. 3rd period and 3rd group d. 2nd period and 3rd group

9. Which of thegiven elements A, B , C, D and E with atomic numbers 2, 4, 8, 10 and 18 respectively belong to the same period? ( )

   a. A, B, C b. B,C,D c. A,D,E d. B,D,E

10. Which of the following is the correct order of atomic size? ( )

    a. Cl< F< Br< I b. F< Cl< Br< I c. I<Br< Cl< F d. Br< I< Cl< F