ORDNANCE FACTORY HIGHER SECONDARY SCHOOL, CHANDA

STD X **THE PERIODIC CLASSIFICATION OF ELEMENTS** **Max. Marks: 40**

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Q I (A) 1..Fill in the blanks and rewrite the completed statements [2].

1 .-------- Elements are present in the modern periodic table.

2. The Nobel gases were placed in the ---------- group of periodic table.

2.Match the pairs [2]

S – block	Grp No I & II
P –block	Grp No. 13 to 18
d- block	Grp No 3 to 12
f- block	La & Ac series.

3. State True/False - Fluorine (F) is the most electronegative elements . [1]

B. Rewrite the following statements by selecting the correct options.

1The number of electron in the outer most shell of alkali metals is ----- a)1, b)2 c),3 d)4,

2.Alkaline earth metals have valency 2. Then the position in the modern periodic table is ----

a) Group 2, b) Period- 2 , c) S- block

3 In which block of modern periodic table nonmetal are found .a) S-block, b) p-block, c) d block.

4 The most reactive non metal is ---------. a) He ,b) Ne c) Ar ,d) F.

5 The Nobel gas with the smallest atomic radius a) He ,b) Ne c) Ar ,d) F.

Q II. Answer the following (any 5) [10]

State Mendeleev's periodic law.

Give reason – Atomic radius goes on increasing down in group.

Give the difference between Group & Period.

If EC [2,8,2] then what is the atomic number? In which group it belongs.

$_{3}$ Li, $_{14}$Si, $_{2}$He, $_{11}$Na, $_{15}$P which of these elements belongs to **3rd** period.

List the elements of 2nd & 3rd period in the order of atomic number.

Q. III. Attempt the following any FIVE [15]

1. State the merits of Mendeleev's periodic table.
2. Explain the structure of Modern periodic table.
3. Define Atomic size. Why it varies in groups and in the periods.
4. Explain the metallic and non metallic . in the modern periodic table.
5 Describe the Newlands law of octaves with example.
6. write the position of metalloids in modern periodic table.

Q. IV Write the name for the following . [5]

1. Name the first and last elements in the modern periodic table.
2 .The group with valency zero.
3. The family of metal having valency one.
4 . Non metal in 3rd period.
5. Eka-Radon is renamed as --------

.***[The purpose of Q/P is to nurture individuality and enhance ones innate potential.]***

*** @ happy learning

Unit- II/x