

**Chapter: 2**

**Q.1 A) Choose the correct alternative and rewrite the sentence** (1)

- 1) He arranged the elements in increasing order of their atomic masses in a group of three

.....

- a. Mosely      b. Mendeleev      c. Dobereiner      d. Thompson

**B) Answer the following questions.** (2)

i) **Find co-related terms**

Triads : ..... :: Octaves : Group of 8 elements

ii) **State true or false.**

All the non metals lie on the right side of zig zag line drawn in p block.

**Q.2 A) Give scientific reason. (Any one)** (2)

- 1) Metallic properties of the elements change to non metallic properties as one moves from left to right in a period of periodic table.
- 2) Atomic radius goes on increasing down a group.

**B) Answer the following questions. (Any two)** (4)

i) **Distinguish between**

Groups and Periods

ii) **Write Short Notes on**

Mendeleev's periodic law.

3) State Newland law of octaves.

**Q.3 Answer the following questions. (Any two)** (6)

- 1) From the elements of second period of the modern periodic table given below, answer the following questions:

Li	Be	B	C	N	O	F	Ne
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- (a) Name the elements in which both the shells are completely filled with electrons.
- (b) Name the element which has same number of electrons in both the shells.
- (c) Which is the most electropositive element in this period?

2) An element has its electron configuration as 2,8,2. Now answer the following questions.

- i. What is the atomic number of this element?
- ii. What is the valency of this element?
- iii. What is the group of this element?
- iv. To which period does this element belong?

v. With which of the following elements would this element resemble?(Atomic numbers are given in the brackets)

N(7), Be(4), Ar(18), Cl(17)

**3) Complete the paragraph:**

**(two, eighteen, very long, eight, 32, short, long, longest)**

The first period has ..... elements and is called shortest period. The second and there periods have ..... elements and all called ..... period. The fourth and fifth period has ..... elements and are called long period. The sixth period has thirty two elements and is ..... period seventh period has ..... elements.

**Q.4 Answer the following questions. (Any one)**

**(5)**

1) What are the demerits of Mendeleev's periodic table? Write the demerits of Mendeleev's periodic table.

2)

Li	Be		B	C	N	O	F	Ne
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i. List the group to which following elements belong.

ii. Name the period to which they belong.

iii. Depending upon these electronic configuration justify there period.

iv. Name a Metal, Non Metal, Halogen and a Noble Gas.

v. When we move across the period from left to right, how the metallic character change.

