

ASSIGNMENT 5- CHAPTER 4 AND 5

Q1) The position of certain elements in the Modern Periodic Table is shown below-

Group → Period ↓	1	2	3 to 12	13	14	15	16	17	18
1	D								X
2	G				J				Y
3		E		W			I		Z

Using the above table answer the following questions-

- i) X, Y, Z belong to which family?
- ii) Out of X, Y, Z which has the largest atomic size? Give reason.
- iii) Which element is metal with valency 2?
- iv) Which element is non-metal with valency 2?
- v) Which element will form a covalent compound? (5)

Q2) Write the structural formula of

- a) Pentanone
- b) Butanoic acid
- c) Ethanal (3)

Q3) a) An element 'X' with atomic number 19 forms a compound with element 'Y' with atomic number 8. What is the formula of the compound formed?

- b) Write the group number and period number of element ${}_{14}^{28}\text{X}$ (on the basis of its electronic configuration) (2)