**HOLIDAY HOMEWORK**

**CLASS-11 CHAPTER- 3**

**CHAPTER – CLASSIFICATION OF ELEMENTS**

1. Write the importance of Mendeleev’s Periodic Table.
2. What is Modern Long Form of the Periodic Table? Explain the Periodicity along Periods and Groups.
3. Draw Modern Long Form OF Periodic Table and explain the position of s, p ,d and f – Block elements in it.
4. Explain the Anomalous Properties of Second Period Elements and state the reason behind this.
5. Write the name of elements from atomic number 100 to 108 on the basis of IUPAC method.
6. Find out the reason behind the anomalous behaviour of the pair (a)Be and B and

(ii) N and O.

1. What is meant by Formal Charge? How can we calculate this and what is its importance?
2. Write the limitations of ‘Octet Rule’.
3. Explain Lattice Enthalpy, Bond Order, Bond Length, Bond Angle and Bond Order.
4. Explain VSEPR theory. Write its main postulates.
5. Predict the Geometry of molecules in which no lone pair is there.
6. Draw the shape of SO2, NH3, H2O, SF4, ClF3, BrF5 and XeF4.