Assignment 1

Class – 11

Subject – Chemistry

1. Discuss the importance of Chemistry in modern life.
2. What do you mean by Significant Figure, Precision and Accuracy ? Explain with the help of examples.
3. Solve all the numerical problems from the chapter ‘ Some Basic Concepts Of Chemistry’.
4. Explain all the laws of Chemical Combinations from the chapter.
5. Write short notes on Mole Concept.
6. Explain Empirical Formula, Molecular Formula and Limiting Reagent.
7. Describe Molality, Molarity and Mole Fraction.
8. Describe Thomson’s Cathode Ray Tube Experiment .
9. Explain Photoelectric Effect and Dual Behaviour of electron.
10. Write short notes on Line Spectrum of Hydrogen.
11. What is meant by Quantum Number? Discuss all the types of it and their importance.
12. Explain Pauli’s Exclusion Principle, Hund’s Rule of Maximum Multiplicity and Aufbau Principle.
13. Write the electronic configurations of the elements from atomic number 1 to 30.
14. Solve all the numerical problems from the chapter Structure of Atoms.
15. Write the importance of Mendeleev’s Periodic table.
16. What is Modern Long Form OF the Periodic Table? Explain the Periodicity along Periods and Groups.
17. Draw Modern Long Form OF Periodic Table and explain the position of s, p,d and f – Block elements in it.
18. Explain the Anomalous Properties of Second Period Elements and reason behind this.
19. What is meant by Formal Charge? How can we calculate this and what is its importance?
20. Write the limitations of ‘Octet Rule’.
21. Explain Lattice Enthalpy, Bond Order, Bond Length, Bond Angle and Bond Order.
22. Project on Discovery of electron.
23. Project to describe the concentrations of solutions quantitatively.