**Syllabus Details(2015-16)**

**Class: - XI Subject: - Chemistry Teacher Name: Mr. Praveen Tiwari**

**Book Name:- NCERT TEXT BOOK Ref. Book:- 1. Ratna Sagar Pb.**

**2. S.Chand**

**3. Modern ABC**

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| **S.**  **No.** | **Month** | **No of working days** | **Unit/ chapter** | **Weightage of marks & Type of questions** | **Remarks** |
|  | **April** | **22** | **1. Some basic concepts of chemistry** | **4(1+3)** |  |
| **1 week** |  | **Nature of matter, properties laws of chemical combinations Dalton’s atomic theory atomic and molecular mass** |  |  |
| **2 week** |  | **Mole concept and molar mass percentage composition stoichiometry and stoichiometric calculations** |  | **Important** |
| **3 week** |  | **2. Structure of Atom**  **Subatomic particles, atomic models, bohr model, bohr’s model for hydrogen atom** | **6**  **(1+5) or**  **(2+2) or**  **(1+3+2)** |  |
| **4 week** |  | **Quantum mechanical model of an atom** |  | **Very important** |
| **S.**  **No.** | **Month** | **No of working days** | **Unit/ chapter** | **Weightage of marks & Type of questions** | **Remarks** |
|  | **May** | **25** | **3. Classification of elements and periodicity in properties** | **4(1+3) or**  **(2+2)** |  |
| **1 week** |  | **Genesis of periodic classification, Modern periodic law nomenclature** |  |  |
| **2 week** |  | **Electronic configurations of elements (5,p,d,f) periodic trends in properties of elements** |  | **Important** |
| **3 week** |  | **4. Chemical bonding and molecule or structure**  **Types of Bond, Parameters, VSEPR Theory** | **5(3+2)** |  |
| **4 week** |  | **VB Theory, Hybridisation, Molecular orbital theory, hydrogen bonding** |  | **Very important** |
|  | **July** | **25** | **5. States of matter** | **4(2+2) or**  **(1+3)** |  |
| **1 week** |  | **Intermolecular forces, thermal energy, gaseous state, gas laws, equation, kinetic theory of gases, liquation** |  | **Important chapter** |
| **2 week** |  | **6. Thermodynamics**  **Thermodynamic state, H & U,**  **Enthalpy change** | **6(1+5)** | **Very important chapter** |
| **3 week** |  | **Zeroth, First laws of thermodynamics** |  |  |
| **4 week** |  | **Spontaneity, IInd law of Thermodynamics, Gibbs energy change and equilibrium** |  |  |
| **S.**  **No.** | **Month** | **No of working days** | **Unit/ chapter** | **Weightage of marks & Type of questions** | **Remarks** |
|  | **August** | **23** | **7. Equilibrium** | **6(1+5) or**  **(3+3)** | **Very important chapter** |
| **1 week** |  | **Equilibrium is physical processes/ chemical processes law, equilibrium constant** |  |  |
| **2 week** |  | **Homogenous/ Heterogeneous equilibrium, Application, K,Q,G(Relations), Factors affecting equilibrium** |  |  |
| **3 week** |  | **Ionic equilibrium, Acids, Bases and salts, Iomisation solubility** |  |  |
| **4 week** |  | **8. Redox Reactions**  **Oxidation, Reduction, elector laransfer reactions, oxidation no, Redox Rxns and electrode processes** | **3(1+2)** | **Important** |
|  | **Sept.** | **19.** | **9. Hydrogen** | **3** |  |
| **1 week** |  | **Position, H2, Hydrides, water, H2O2, D2 O, Hydrogen economy** |  |  |
| **2 week** |  | **10. The s-block elements**  **Group-1 and Group-2**  **Elements- properties & behavior** | **5(2+3)** | **Important** |
| **3 week** |  | **71. The p-block elements**  **Group-13 elements** | **5(2+3)** |  |
| **4 week** |  | **Group-14 elements** |  | **Important** |
| **S.**  **No.** | **Month** | **No of working days** | **Unit/ chapter** | **Weightage of marks & Type of questions** | **Remarks** |
|  | **October** | **24** | **12. Organic chemistry** | **7(2+5)**  **(1+3+3)** | **Very important** |
| **1 week** |  | **General introduction,**  **Carbon, structural representations, classifications** |  |  |
| **2 week** |  | **Nomenclatures, Isomerism Fundamental concepts inductive effects, electrometric,**  **Resonance** |  |  |
| **3 week** |  | **Hyper conjugation, chromatographic method** |  |  |
| **4 week** |  | **13. Hydrocarbons**  **Classification, Alkane prepetition, properties** | **8 (3+5)/**  **(1+2+5)** | **Very important** |
|  | **November** | **20** |  |  |  |
| **1 week** |  | **Alkenes- preparation & properties** |  |  |
| **2 week** |  | **Alkynes- preparation & properties** |  |  |
| **3 week** |  | **Aromatic hydrocarbon, carcinogenicity** |  |  |
| **4 week** |  | **14. Environmental pollution**  **Atomospheric pollution, water pollution, Methods to control pollution green chemistry** | **3 (1+2)** |  |