**Syllabus Details(2015-16)**

**Class: - XII 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. solid state** | **4(1+3)** |  |
| **1 week** |  | **Characteristics, amorphous, crystalline solids, classification,**  **No. of atoms in a cubic unit cells** |  |  |
| **2 week** |  | **Dimensions of cells, imperfections, electrical and magnetic properties** |  |  |
| **3 week** |  | **2. Solutions**  **Types of solutions, solubility, vapour pressure of liquid solutions** | **5(2+3)** |  |
| **4 week** |  | **Ideal and Non-Ideal solution, colligative properties, abnormal molar masses** |  |  |
| **S.**  **No.** | **Month** | **No of working days** | **Unit/ chapter** | **Weightage of marks & Type of questions** | **Remarks** |
|  | **May** | **25** | **3. Electrochemistry** | **5** |  |
| **1 week** |  | **Electrochemical cells, Nernst equation** |  |  |
| **2 week** |  | **Conductance**  **Electrolytic cells and electrolysis**  **Batteries, fuel cells, corrosion** |  |  |
| **3 week** |  | **4. Chemical kinetics**  **Rate of chemical reactions, factors affecting rate Reaction** | **5(2+3) or**  **(1+2+2)** |  |
| **4 week** |  | **Integrated Rate equations, Temperature dependence, collision theory** |  |  |
|  | **July** | **25** | **5. Surface chemistry** | **4(1+3)** |  |
| **1 week** |  | **Adsorption, catalysis, colloids, emulsions** |  |  |
| **2 week** |  | **6. General principles and processes of Isolation of elements**  **Occurrence of metals, concn of ores, extraction** | **3** |  |
| **3 week** |  | **Thermodynamic principals of metallurgy, Application Refining, Uses of Al, cu, zn, Fe** |  |  |
| **4 week** |  | **7. The P-block elements**  **Group-15 elements**  **Group-16 elements** | **8(3+5) or**  **(2+2+3+1)** |  |
| **S.**  **No.** | **Month** | **No of working days** | **Unit/ chapter** | **Weightage of marks & Type of questions** | **Remarks** |
|  | **August** | **23** |  |  |  |
| **1 week** |  | **Group – 17 Elements** |  |  |
| **2 week** |  | **Group- 18 Elements** |  |  |
| **3 week** |  | **8. d- and f-block elements**  **Electronic configuration, General properties, Important compounds** | **5(2+3)** |  |
| **4 week** |  | **Lanthanides and actinides, application of d-and f-block elements** |  |  |
|  | **Sept.** | **19** | **9. Co-ordination compounds** | **3** |  |
| **1 week** |  | **Werner’s Theory, Important Terms, Nomenclature** |  |  |
| **2 week** |  | **Isomerism, Bonding in co-ordination compounds and metalcarbonyls, applications** |  |  |
| **3 week** |  | **10. Haloalkanes and Haloarenes**  **Classification Nomenclature**  **Nature of C-X bonds** | **4(2+2)** |  |
| **4 week** |  | **Methods of prep, properties polyhalogen compounds** |  |  |
| **S.**  **No.** | **Month** | **No of working days** | **Unit/ chapter** | **Weightage of marks & Type of questions** | **Remarks** |
|  | **October** | **24** | **11. Alcohols, Phenols and Ethers** | **4(1+3)** |  |
| **1 week** |  | **Classification, Nomenclature Preparation and properties of Alcohols and Phenols** |  |  |
| **2 week** |  | **Distinction b/w 1, 2, Alcohols, Iodoform Test**  **Ethers – Preparation & properties** |  |  |
| **3 week** |  | **12. Aldehydes, Ketones& carboxylic acids**  **Nomenclature, Preparation, Properties of Aldehydes & ketones** | **(3+3) or**  **(1+5)** |  |
| **4 week** |  | **Nomenclature and structure and properties of carboxylic acids** |  |  |
|  | **November** | **20** | **13. Carbon compounds containing Nitrogen** | **4(1+3** |  |
| **1 week** |  | **Structure, classification, prep, properties, Tests** | **(2+2)** |  |
| **2 week** |  | **14. Bimolecules**  **Classification, Protein, Vitamins, Nucleic Acids** | **4(2+2)** |  |
| **3 week** |  | **15. Polymers**  **Terms, Classification, Types of Polymers** | **3** |  |
| **4 week** |  | **16. Chemistry in everyday life**  **Drugs and their classification chemicals in food, cleansing action/ agents** | **3** |  |