**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**$°$**,** $3°$ **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** |  |