**Guru Gobind Singh Public School,Dhanbad**

**Std – X , Session : 2018-19**

**Subject-Chemistry**

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| **Month** | **Week** | **No. of period** | **unit** | **subtitle** | **Test/SEA/Project** | **Outdoor/Practical/LAB** |
| April | 4.4.18-7.4.18 | 2 | 1 | Ch1.Introduction,Chemical Equation, Types with examples, |   |   |
| 9.4.18-12.4.18 | 3 | 1 | Implication of a balance equation, Types of Chemical Equation. |   | Find the pH of the following samples by using pH paper. |
| 16.4.18-21.4.18 | 3 | 1 | Combination, Decomposition, Displacement Reaction with examples. | Class test (oral) | i.dil.HCl ii.dil NaOH iii.dil CH3COOH iv. Lemon Juice v.Water. |
| 23.4.18-30.4.18 | 3 | 1 | Double Displacement, Precipitation, Neutralisation Reaction, oxidationand reduction Reaction and agents. |   |   |
| May | 1.5.18-5.5.18 | 3 | 1 | Ch-2.Acids,Bases and Salts, Introduction, Definition ,General Properties .Examples | Class test(written) | Study the properties of acids and bases on the basis of their reaction with i. Litmus Solution ii.Zinc Metal iii.Na2CO3 |
|   |   |   | SUMMER VACATION (7.5.18-9.6.18) |   |   |
| June  | 11.6.18-15.6.18 | 3 | 2 | Uses, Concept of pH, Definition of pH, Applications. |   |   |
| 18.6.18-23.6.18 | 3 | 2 | Importance of pH in everyday life, Preparation and uses of Sodium Hydroxide. |   | Performing and observing the following reaction and classify  |
| 25.6.18-30.6.18 | 3 | 2 | Preparation and uses of Bleaching Powder, Baking Soda. |   | Them. I. Action of water on quick lime  |
| July  | 2.7.18-7.7.18 | 2 | 1,2 | Preparation of Washing soda, Plaster of Paris |   |   |
|   |   |   | Ch-1 Rancidity, Corrision and rusting with examples. |   | ii. Action of heat on Ferrous Sulphate Crystals. |
| 9.7.18-13.7.18 | 2 | 2 | Family of salts, Water of Crystallization, |   | iii. Iron nails kept in copper sulphate solution  |
| 16.7.18-21.7.18 | 3 | 3 | Ch-3 Metals and Non metals, Definationand Importance, Metalloids with examples. |   | iv reaction between sodium sulphate with barium chloride |
| 23.7.18-28.7.18 | 3 | 3 | Physical Properties of Metals and Non Metals,  |   |   |
| 30.7.18-31.7.18 | 1 |   |   |   |   |
| Aug | 1.8.18-4.8.18 | 2 | 3 | Chemical Properties of Metal and Non Metals, Reactivity Series  |   |   |
|   |   | 3 | Chemical Properties of Metal and Non Metals, Reactivity Series  |   |   |
| 6.8.18-10.8.182 | 2 | 3 | Chemical Properties of Metal and Non Metals, Reactivity Series  |   |   |
| 13.8.18-18.8.18 | 2 | 3 | Chemical Properties of Metal and Non Metals, Reactivity Series  |   |   |
| 20.8.18-25.8.18 | 3 | 3 | How do Metals and Non Metals Reacts? Ionic Bonds and its Properties,Occurance of  |   |   |
|   |   |   | Metals, Native and Combined States of metals, Extraction of Metals. |   |   |
| 27.8.18-1.9.18 | 2 | 3 | Corrosion, Prevention of Rusting and Corrosion. |   |   |
| Sep |   |   |   |   |   |   |
| 4.9.18-7.9.18 | 2 | 1,2 | Revision test conducted | class test (written) |   |
| 10.9.18-15.9.18 | 3 | 1,2,3 | Revision test conducted | class test (written) |   |
|   |   |   | MID TERM TEST (18.9.18-29.9.18) |   |   |
| October  | 1.10.18-6.10.18 | 3 | 4 | Ch-4 Carbon and its compounds, Bonding -covalent, Its Types Characteristics,Covalency |   |   |
| 8.10.18-12.10.18 | 2 | 4 | Allotropy of carbon, Diamond, Graphite and Fullerenes. Versatile Nature of Carbon. |   | Study of the following properties of acetic acid i.odour  |
|   |   |   | Catenation ,Tetravalency,Isomerisation in Organic Compounds, Functional Group, Homologous Series , Nomenclature, Chemical properties of Carbon Compound, | Class Test (oral) | Ii solubility iii effect on litmus iv .reaction with NaHCO3. |
| 22.10.18-27.10.18 | 3 | 4 | Ethanol , Etanoic Acid , preparation ,properties and their uses |   | Study the Saponification Reaction  |
| 29.10.18-31.10.18 | 1 | 4 | Soap and Detergents, structure, Preparation, Cleaning Action of Soap, Advantage and Disadvantage of Soaps And Detergents, Synthetic Detergents. |   |   |
| Nov | 1.11.18-4.11.18 | 2 | 5 | Ch-5. Introduction, Periodic Table, Classification s, Dobereiners Triads, Newland Law of Octaves, Mendeleevs Periodic Table. Features ,Limitations  |   | Study the comparative cleaning capacity of a sample of soap in soft and hard water. |
| 16.11.18-17.11.18 | 1 | 5 | Modern Periodic Table. Laws. Study of Groups and Periods. | Class Test (Written) |   |
| 19.11.18-24.11.18 | 3 | 5 | Characteristics, Advantages or Merits and Trends in modern periodic table. |   |   |
| 26.11.18-1.12.18 | 3 | 5 | Revision Test Taken |   |   |