**Subject: CHEMISTRY ( THEORY) BSc. 2nd Semester**

**Name of Assistance Prof: ALVEERA**

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| **Date Jan, 2019** | **TOPICS** | **Practicals** |
| **1Jan** | **Introduction of rate of reaction – kinetics** |  |
| **2 Jan** | **Factors affecting the rate of reactions** |  |
| **3 Jan** | **Order of reaction integrated rate expression for zero order reaction** |  |
| **4 Jan** | **First order reaction second order reaction** |  |
| **5 Jan** | **Half life of reaction** |  |
| **6 Jan** | **SUNDAY** |  |
| **7 Jan** | **Arrhenius equation** | **Experiment – 1** |
| **8 Jan** | **Collision theory** |  |
| **9 Jan** | **Trasition theory** |  |
| **10 Jan** | **Effect of temperature on reaction** |  |
| **11 Jan** | **Revision** |  |
| **12 Jan** | **Test** |  |
| **13 Jan** | **SUNDAY** |  |
| **14 Jan** | **Holiday** |  |
| **15 Jan** | **Hydrogen bonding properties of substance** | **Experiment - 2** |
| **16 Jan** | **Discussion of different type of forces** |  |
| **17 Jan** | **Revision** |  |
| **18 Jan** | **Quantitive idea of metallic bond** |  |
| **19 Jan** | **Conductor semiconductor insulator** |  |
| **20 Jan** | **SUNDAY** |  |
| **21 Jan** | **Application of semiconductor** | **Experiment - 3** |
| **22 Jan** | **Continue** |  |
| **23 Jan** | **Revision** |  |
| **24 Jan** | **Nomenclature of alkenes and methods of formation of alkenes** |  |
| **25 Jan** | **Relative stability of alkenes** |  |
| **26 Jan** | **Republic day** |  |
| **27 Jan** | **SUNDAY** |  |
| **28 Jan** | **Chemical reactions of alkenes** |  |
| **29 Jan** | **Oxymercuration ozonolysis** |  |
| **30 Jan** | **Oxidation with KMnO4** |  |
| **31 Jan** | **Revision** |  |
| **Date Feb. 2019** | **TOPICS** |  |
| **1 Feb** | **Continue** |  |
| **2 Feb** | **Test** |  |
| **3 Feb** | **SUNDAY** |  |
| **4 Feb** | **Nomenclature of benzene derivative** | **Experiment - 4** |
| **5 Feb** | **Aromaticity and huckle rule** |  |
| **6 Feb** | **Aromatic and antiaromatic compounds** |  |
| **7 Feb** | **Aromatic electrophilic substitution** |  |
| **8 Feb** | **Continue** |  |
| **9 Feb** | **Energy profile** |  |
| **10 Feb** | **SUNDAY** |  |
| **11 Feb** | **Actvating and deactivating groups** |  |
| **12 Feb** | **Revision** |  |
| **13 Feb** | **Revision** |  |
| **14 Feb** | **Numerical of kinetics** | **Experiment - 5** |
| **15 Feb** | **Kinetics** |  |
| **16 Feb** | **Electrolytic conduction** |  |
| **17 Feb** | **SUNDAY** |  |
| **18 Feb** | **Factors affecting molar conductance and equivalent conductance** |  |
| **19 Feb** | **HOLIDAY** |  |
| **20 Feb** | **Relation among them** |  |
| **21 Feb** | **Oswald dilution law** |  |
| **22 Feb** | **Debye huckle onsagar equation** |  |
| **23 Feb** | **Application of kohrausch’s law** |  |
| **24 Feb** | **SUNDAY** |  |
| **25 Feb** | **Determination of degree of freedom** |  |
| **26 Feb** | **Concept of solubility constant** |  |
| **27 Feb** | **Concept of Pka pH** | **Experiment -6** |
| **28 Feb** | **HOLIDAY** |  |
| **Date March 2019** | **Topic** |  |
| **1March** | **Buffer solution** |  |
| **2March** | **Hazel equation** |  |
| **3March** | **SUNDAY** |  |
| **4 March** | **HOLIDAY** |  |
| **5March** | **Continue** |  |
| **6 March** | **Introduction of S block elements** | **Experiment -7** |
| **7 March** | **Anamolous behaviour of Lithium beryllium** |  |
| **8 March** | **Salient features of hydrides oxides** |  |
| **9 March** | **Halides and hydroxides** |  |
| **10 March** | **SUNDAY** |  |
| **11 March** | **Continue** |  |
| **12 March** | **General features of noble gases** |  |
| **13 March** | **Chemistry of xenons** |  |
| **14 March** | **Oxides and oxyflourides of xenons** | **Experiment -8** |
| **15 March** | **Continue** |  |
| **16 March** | **Continue** |  |
| **17 March** | **SUNDAY** |  |
| **18 March -24march** | **Numericals of electrochemistry** |  |
| **25 March** | **Numerical** |  |
| **26 March** | **Nomenclature and classification of dienes** |  |
| **27 March** | **Continue** |  |
| **28 March** | **Chemical reactions of 1,4 and 1,2 dienes** |  |
| **29 March** | **Diels alder reaction** |  |
| **30 March** | **Method of formation of alkynes** |  |
| **31 March** | **SUNDAY** |  |
| **1 April** | **Nucleophilic and electrophilic reaction** | **Experiment - 9** |
| **2April** | **Continue** |  |
| **3 April** | **Nomenclature of alkyl halides** |  |
| **4 April** | **Methods of formation** |  |
| **5 April** | **Physical and chemical reactions** |  |
| **6 April** | **Continue** |  |
| **7 April** | **SUNDAY** |  |
| **8 April** | **Relatie reactivity of allyl and alkyl halides** |  |
| **9 April** | **Aryl halides and vinyl halides** |  |
| **10 April** | **Continue** |  |
| **11 April** | **Introductions of p block elements** | **Revision of practicals** |
| **12 April** | **Boron family** |  |
| **13 April** | **HOLIDAY** |  |
| **14 April** | **SUNDAY** |  |
| **15 April** | **Carbon family** |  |
| **16 April** | **Oxygen family** |  |
| **17 April** | **Continue** |  |
| **18 April** | **Halogen family** |  |
| **19 April** | **Continue** |  |
| **20 April** | **Continue** | **Revision of practicals** |
| **21 April** | **Sunday** |  |
| **22 April** | **Continue** |  |
| **23 April** | **Test** |  |
| **24 April** | **Revision** |  |
| **25 April** | **revision** |  |
| **26 April** | **Test** |  |
| **27 April** | **Revision** |  |
| **28 April** | **Sunday** |  |
| **29 April** | **Continue** |  |
| **30 April** | **revision** |  |
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