**Subject – Chemistry THEORY (B.Sc. 6th Sem.)**

**Name of Assistance Prof. -ALVEERA**

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| **Month 2019** | **Topic** | **Practicals** |
| **1 jan** | **Acids and base concepts** |  |
| **2 jan** | **Continue** |  |
| **3 jan** | **Relative strength of acid and base** |  |
| **4 jan** | **Hard and soft acids** |  |
| **5 jan** | **Applications of HSAB concepts** | **Experiment - 1** |
| **6 jan** | **Sunday** |  |
| **7 jan** | **Continue** |  |
| **8 jan** | **Continue** |  |
| **9 jan** | **Introduction to statistical mechanics** |  |
| **10 jan** | **Thermodynamic probability Maxwell Boltzmann distribution** |  |
| **11 jan** | **Born oppenheimer approximation** |  |
| **12 jan** | **Partion fuction** |  |
| **13 jan** | **Sunday** |  |
| **14 jan** | **Holiday** |  |
| **15 jan** | **Continue** |  |
| **16 jan** | **Continue** | **Experiment - 2** |
| **17 jan** | **Intraction of raditation with matter** |  |
| **18 jan** | **Laws of photochemistry** |  |
| **19 jan** | **Grotthus Drapper law** |  |
| **20 jan** | **Sunday** |  |
| **21 jan** | **Stark Einstein law** |  |
| **22 jan** | **Jablonski diagram** |  |
| **23 jan** | **Continue** |  |
| **24 jan** | **Flouroscence** |  |
| **25 jan** | **Phosphorescence** |  |
| **26 jan** | **Republic day** |  |
| **27 jan** | **Sunday** |  |
| **28 jan** | **Quantam yield** | **Experiment - 3** |
| **29 jan** | **Continue** |  |
| **30 jan** | **Transfer process** |  |
| **31 jan** | **Continue** |  |
| **1Feb** | **Continue** |  |
| **2 Feb** | **Test** |  |
| **3 Feb** | **Sunday** |  |
| **4 Feb** | **Revision** |  |
| **5 Feb** | **Acidity of hydrogens alkylation of esters** | **Experiment -4** |
| **6 Feb** | **Synthesis of esters** |  |
| **7 Feb** | **Keto enol tutomerism** |  |
| **8 Feb** | **Continue** |  |
| **9 Feb** | **Introduction of hetrocycic compounds** |  |
| **10 Feb** | **Sunday** |  |
| **11 Feb** | **Chemistry of pyrrole furan thiophene** |  |
| **12 Feb** | **Continue** |  |
| **13 Feb** | **Nucleophilic substitution reactions** |  |
| **14 Feb** | **Continue** |  |
| **15 Feb** | **Pyridiene piperdiene chemistry** |  |
| **16 Feb** | **Basicity comparison of hetrocyclic compounds** |  |
| **17 Feb** | **Sunday** |  |
| **18 Feb** | **Five and six membered ring hetrocyclic compounds** | **Experiment -5** |
| **19 Feb** | **Holiday** |  |
| **20 Feb** | **Preparation of indole quinoline** |  |
| **21 Feb** | **Continue** |  |
| **22 Feb** | **Synthesis** |  |
| **23 Feb** | **Electrophilic reactions** |  |
| **24 Feb** | **Sunday** |  |
| **25 Feb** | **Continue** | **Experiment -6** |
| **26 Feb** | **Continue** |  |
| **27 Feb** | **Revision** |  |
| **28 Feb** | **Holiday** |  |
| **1 March** | **Introduction of ideal and non ideal solutions** |  |
| **2 March** | **Colligative properties** |  |
| **3 March** | **Sunday** |  |
| **4 March** | **Continue** |  |
| **5 March** | **Elevation in boiling point freezing points** |  |
| **6 March** | **Application in calculating molar mass** |  |
| **7 March** | **Dissociated and associated solute in solvents** | **Experiment 7** |
| **8 March** | **Continue** |  |
| **9 March** | **Continue** |  |
| **10 March** | **Sunday** |  |
| **11 March** | **Classification of bio inorganic metals** |  |
| **12 March** | **Mettaloporphyrin haemoglobin** |  |
| **13 March** | **Biological importance of Na Mg Fe** | **Experiment -8** |
| **14 March** | **Continue** |  |
| **15 March** | **Bohr effect** |  |
| **16 March** | **Revision** |  |
| **17 March** | **Sunday** |  |
| **18 March** | **Holiday** |  |
| **19 March** | **Holiday** |  |
| **20 March** | **Holiday** |  |
| **21 March** | **Holiday** |  |
| **22 March** | **Holiday** |  |
| **23 March** | **Holiday** |  |
| **24 March** | **Holiday** |  |
| **25 March** | **Nomenclature and classification of silicones** | **Experiment -9** |
| **26 March** | **Preparation** |  |
| **27 March** | **Chemical and physical property** |  |
| **28 March** | **Introduction of amino acids** |  |
| **29 March** | **Preparation** |  |
| **30 March** | **Structure and properties of peptides and proteins** |  |
| **31 March** | **Sunday** |  |
| **1 April** | **Primary and secondary structure of proteins** |  |
| **2 April** | **Continue** |  |
| **3 April** | **Revision** |  |
| **4 April** | **Polymerizations and type of polymerization** |  |
| **5 April** | **Continue** | **Experiment - 10** |
| **6 April** | **Ziggler natta polymerization** |  |
| **7 April** | **Sunday** |  |
| **8 April** | **Natural and synthetic rubber** |  |
| **9 April** | **Revision** |  |
| **10 April** | **Test** | **Revision of practicals** |
| **11 April** | **Introduction of phase equibrium** |  |
| **12 April** | **Two component system** |  |
| **13 April** | **Holiday** |  |
| **14 April** | **Sunday** |  |
| **15 April** | **Desilverisation of lead** |  |
| **16 April** | **Pb Ag system** |  |
| **17 April** | **Holiday** |  |
| **18 April** | **Revision** |  |
| **19 April** | **Introduction of organomettalic compounds** |  |
| **20 April** | **Preparation of alkyls of Li Al Hg** |  |
| **21 April** | **Sunday** |  |
| **22 April** | **Continue** |  |
| **23 April** | **Structure of ferrocene** |  |
| **24 April** | **Properties in mononuclear carbonyls** |  |
| **25 April** | **Revision** |  |
| **26 April** | **Revision** | **Revision of practicals** |
| **27 April** | **Revision** |  |
| **28 April** | **Sunday** |  |
| **29 April** | **Test** |  |
| **30 April** | **revision** |  |