SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

LESSON-PLAN

Class:B.Sc. 3rd **Semester:6th**

Subject: Organic chemistry **Session:2021-2022**

1	**Molecular orbital picture, aromatic characteristics of pyrrole,furan**
2	**Thiophene and pyridine, methods of synthesis and chemical reactions**
3	**Mechanism of nucleophilic substitution reactions in pyridine derivatives**
4	**Revision**
5	**Comparison of basicity of pyridine, piperidine and pyrrole**
6	**Introduction to condensed five and six membered ring**
7	**Preparation and reactions of indole, quinoline and isoquinoline with reference to fisher indole synthesis**
8	**Skarup synthesis and Bischler Napieralski synthesis**
9	**Mechanism of electrophilic substitution reactions of quinoline and isoquinoline**
10	**Nomenclature, structural features, method of formation and chemical reactions of**
11	**Thiols,thioether, sulphonic acids, sulphonamide,sulphogaunidine**
12	**Synthetic detergent, alkyl and aryl sulphonation**
13	**Acidity of alpha hydrogen,alkylation of diethyl malonate**
14	**Alkylation of ethyl aceto acetate, synthesis of ethyl aceto acetate**
15	**The claisen condensation,keto enol tautomerism of ethyl acetate**
16	**Revision**

17	**Chain growth,free radicals vinyl, ionic vinyl polymerization**
18	**Ziegler natta polymerization and vinyl polymers,step growth polymers**
19	**Polyester, polyamide formaldehyde epoxy resins, natural and synthetic rubber**
20	**Classification of amino acids,acid base behaviour,isoelectric point**
21	**Electrophoresis,preparation of alpha amino acids,structur od preptail and proteins**
22	**Peptide structure determination,end group analysis,selective hydrolysis**
23	**Classification and solid phase**
24	**Structure f peptide and proteins,primary and secondary structure of proteins**
