

SuryaSenMahavidyalaya

NAAC ACCREDITED

A Multi Stream Govt. Aided College &

Recognised by UGC u/s 2(f) & 12(b)

(Affiliated to University of North Bengal)

Department of Chemistry

SSM/CHEM/17/2019-20



Date: 21.09.2019

NOTICE

Internal Assessment Assignments

The concerned students of Chemistry Honours and Program courses are hereby directed to submit a project on any one of the following topics in each paper on 04.11.2019, without fail:

Paper / Sem	Topics
CC 2 / Sem - I	1. Vapour pressure & its measurement (experimental methods)
	2. Effect of addition of solutes in liquid on vapour pressure, Rault's law and its deviations.
	3. Viscosity
	4. Experimental Methods for determination of viscosity.
DSC 1 / GE 1 / Sem - I	1. Bohr's theory : A complete description.
	2. Sommerfeld's atom model & quantum numbers.
	3. Factors affecting electron availability: Inductive effect, hyperconjugation, Resonance
	4. Hybridisation (sp^3 , sp^2 , sp)
	5. Pauli's exclusion principle, Aufbau principle and Hund's rule of maximum spin multiplicity.
CC 6 / Sem - III	1. Mechanism and application of a) Aldol condensation b) Benzoin condensation c) Benzil-Benzilic acid rearrangement d) Haloform Reaction
	2. Active methylene compounds & their applications.
	3. Various types of substitution reactions
	4. Phenolic compounds and their reactions.
CC 7 / Sem - III	1. General concept of chemical kinetics
	2. Order and Molecularity and experimental determination of rate constant of a pseudo first order reaction.
	3. Kinetics of Opposing and Parallel reactions.
	4. Development of the kinetics for rate determining step and steady state approximation.
DSC 3 / Sem - III	1. Carboxylic acids and their derivatives
	2. Amines and Diazonium salt
	3. Amino acids
	4. Peptides and Proteins
	5. Carbohydrates
	6. Conductance
	7. Electrochemistry

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HOD & Associate Prof.

Dept. of Chemistry

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