

Sant Shiromani Guru Ravidas Government College, Sargaon, District – Mungeli (C.G.)

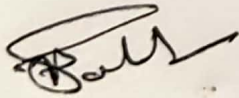
LIST OF ADVANCED LEARNERS

Class : B.Sc. – I

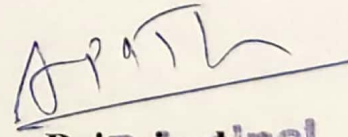
Subject : CHEMISTRY

Session : 2021-22

S. No.	Name of students	Father's Name
1	Kamsee	Jamuna Prasad
2	Nikhil Verma	Jaleshwar Verma
3	Smritibela Divy	Rajkumar Divy
4	Sveta Sahu	Naresh Kumar Sahu
5	Shilpa Sahu	Narendra Sahu
6	Neetu	Manohar
7	Monika Sahu	Kaleshwar Sahu
8	Mithila Sahu	Byasnarayan Sahu
9	Mamta Navrange	Unneram
10	Kamsee	Jamuna Prasad
11	Janisha Netam	Dukhit Ram Netam
12	Divya Khare	Ramlakhan Khare
13	Ghansyam Sahu	Krishna Kumar Sahu
14	Khushboo	Dukhiram



H.O.D.



Principal
Sant Shiromani Guru Ravidas
Govt. College, Sargaon
Distt. Mungeli (C.G.)

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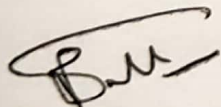
LIST OF SLOW LEARNERS

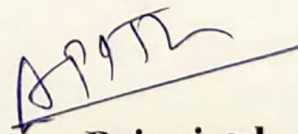
Class : B.Sc. – I

Subject : CHEMESTRY

Session : 2021-22

S. No.	Name of students	Father's Name
1	Anju	Ramprasad
2	Aadarsh Singh	Mahendra Singh Thakur
3	Anurag Koshle	Radhelal
4	Daulat Singh Dhruwe	Devnarayan Dhruwe
5	Danee	Neel Chand
6	Diksha	Chunnilal
7	Khushbu	Devcharan
8	Lakhanlal	Mahesh
9	Narendra Sahu	Thanu Ram Sahu
10	Pooja Soni	Shivkumar
11	Prema Patre	Laksh Kumar
12	Santoshi	Pollsingh
13	Sushma Sahu	Dauram


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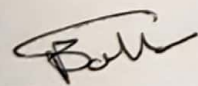
LIST OF ADVANCED LEARNERS

Class : B.Sc. – II

Subject : CHEMISTRY

Session : 2021-22

S. No.	Name of students	Father's Name
1	Durgesh Dahriya	Syamdas
2	Pinki Tandan	Laxminarayan Tandon
3	Varsha Gaykward	VijayShankar Gaykwad
4	Arvind	Tarandas
5	Durgeshwari	Laxman
6	Gulshan Ratre	Rajendra Ratre
7	Indrani	Shiv Prasad
8	Jeet Kumar Khare	Shankar Lal Khare
9	Kamleshwari Sonwani	Kushal Sonwani
10	Kavita	Vijay
11	Khileshwari Jangde	Gurucharan
12	Seema	Mahabali
13	Simran	Taran Das
14	Swati Kshatriya	Parmeshwar
15	Neelam Kaushal	Ashvani Kaushal


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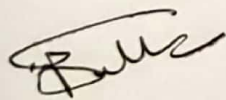
LIST OF SLOW LEARNERS

Class : B.Sc. – II

Subject : CHEMISTRY

Session : 2021-22

S. No.	Name of students	Father's Name
1		
2	Abhay Kumar	Doaman Singh
3	Arun Kumar Dhruw	Baburam dhruw
4	Himesh Kumar Ratre	Rajkumar Ratre
5	Kamini	Amrit Das
6	Neelam Kaushal	Ashvani Kaushal
7	Sameer	Bharat Lal
8	Yogesh Kumar	Suresh
9	Sangita	Balram
10	Omprakash Baghel	Mangal Singh Baghel



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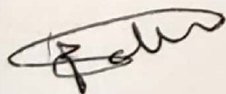
LIST OF ADVANCED LEARNERS

Class : B.Sc. – III

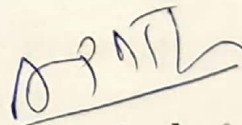
Subject : CHEMISTRY

Session : 2021-22

S. No.	Name of students	Father's Name
1	Arvind Kumar	Rajendra Kumar
2	Khushi	Lakshman
3	Manisha Gayakwad	Ramkumar Gayakwad
4	Manjusha Vaushnav	Santosh Vaushnav
5	Meenu Dahariya	Gokul Dahariya
6	Prurushottam Nishad	Banshilal Nishad
7	Pushpa Tandan	Lallu Ram Tandan
8	Rajendra Kumar	Girdharilal
9	Rajeshwar Sahu	Chinturam
10	Sanat Kumar	Rajkumar
11	Shejal Goshwami	Chandhashpuri Goshwami
12	Soniya Sahare	Rajesh Sahare
13	Mayanak Giri Goshwami	Dinesh Giri Goshwami
14	Seema	Puranlal



H.O.D.



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LIST OF SLOW LEARNERS

Class : B.Sc. – III

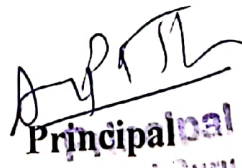
Subject : CHEMISTRY

Session : 2021-22


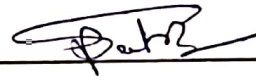
S. No.	Name of students	Father's Name
1	Aanchal Yadav	Baldau Yadav
2	Amar Singh	Shankar Gendale
3	Bindu	Goverdhan
4	Chandani	Raju Patre
5	Gopi Rajput	Baldev Prasad
6	Ranjita	Govind Prasad
7	Tanisha	Shekhar Lal
8	Divya	Laxman
9	Purushottam	Dhanlal



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Distt. Mungeli (C.G.)

Theory B.Sc - III	Remedial / Tutorial and MTP classes	Remarks
		Sunday
		Jommathani
organometallic reagents - introduced organomagnesium compound.	Aromaticity in 5,6 Membered rings containing one heteroatom synthesis B.Sc-III, tutorial classes	
 Principal	 (Sandhya Patre) Department Chemistry	
Sant Shiromani Guru Ravidas Govt. College, Sargaon Distt. Mungeli (C.G.)		


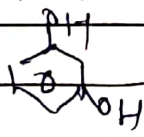
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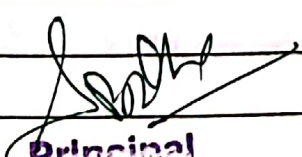
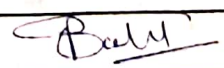
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
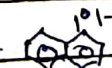
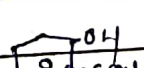
Theory B.Sc-III	Remedial / Tutorial / Insp Classes	Remarks
Grignard reagents formation, structure and chemical reaction Grignard reagents chemical reaction and A		Unit - I Inorganic Chemistry B.Sc-I Compl eted.
Application of uses of Grignard Reagents		Unit - I Physical Chem B.Sc-II Completed
Organic zinc compound method of prepara- tion, properties of Dialkyl Zinc		Sunday
Organolithium Compounds: Formation and chemical Reaction.	Quantum number and shapes of s, p, d orbitals. B.Sc-I tutorial	
Organic synthesis via enolates - active methylene group, malonic ester or diethyl malonate.	Atomic and ionic radii, ionization enthalpy and its causes. B.Sc-I tutorial	
	Signature _____	

(4)	(5)	(6)
		Haritika
		Genish Chatur
		C.L.
Organic synthesis via enolates - Active methylene group, alkylation of diethyl malonate and ethyl acetoacetate		
		Sunday
Synthesis of ethyl acetoacetate. The Claisen condensation.	Standards Study enthalpy of states. Temperature concept of entropy.	
Keto-enol tautomerism of ethyl acetoacetate.	B.Sc II laboratory classes.	Unit - II Inorganic Chemistry B.Sc - I Comp Lab.
Robinson annulations reaction		Unit - II Organic Chem B.Sc - III Completed
Quantum mechanism - I Black body radiation. Planck's radiation law, photoelectric effect and their application		
		O.L.
		Sunday

(4)	(5)	(6)
		Sunday
Compton effect.	Introduction to Qualitative analysis identification of inorganic compound through the functional group analysis determining of melting point B.Sc-III (Batch - I, II)	
Operator: Hamiltonian operator, angular momentum operator, Laplacian operator.	Introduction to Chemistry practical - physical chemistry surface tension and viscometer measurement	
Postulate of quantum mechanism,	preparation of solution Instrument washing B.Sc-I (Batch I, II)	Unit - II Physical Chem B.Sc-II Completed
Eigen Values, eigen function, Schrodinger time independent wave equation.	Analysis of an organic mixture containing two solid components using water for separation and preparation	Unit - I Organic Chem B.Sc-I Completed
Physical significance of ψ & ψ^2 , application of Schrodinger wave equation to particle in a one dimensional box.	Comp A - 	Unit - I Physical Chemistry B.Sc-III Completed
Hydrogen atom radial and angular wave function and their application	Comp. B -  B.Sc-III (Batch - I, II)	
	Signature _____	

Theory B.Sc-III	Remedial / Tutorial / MMP. classes	Remarks
		Sunday
Quantum mechanism - II Introduction - quantum mechanical approach of molecular orbital theory.	Organic compound analysis through functional group carboxylic acid and compound	
Basic ideas - criteria for forming M.O and A.O., LCAO approx- imation.	is found, B.Sc-III, (Batch - I, II)	
Formation of H ₂ t ion.	To determine % composition of a given mixture by Stalagmometer method.	
Calculation of energy levels from wave function. bonding and antibonding wave function.	B.Sc - I (Batch. I, II)	
 Principal	 (Dr. Sandhya Patne) Asst Professor Dept of chemistry	
Sant Shiromani Guro Ravidas Govt. College, Sargaon Distt. Mungeli (C.G.)		

Signature _____

(4)	(5)	(6)
Theory B.Sc-III	Remedial / Tutorial / M.P. class	Remarks
Concept of σ , π , π , π orbitals and their characteristics, Hybrid	analysis organic comp (COOH), (COOH),  (B.Sc III Batch-I, II)	Inahatama Gandhi Jayanti Sunday
Hybrid orbitals - sp , sp^2 , sp^3 calculation of Coefficient of A.O. used in these hybrid orbitals.	Introduction to Qualitative analysis identification of organic compound through the function-	unit-I org Chem, B.Sc II Completed
Introduction to Valence bond model of H_2 .	group analysis determination of melting point B.Sc - II (Batch-I) - COOH , (COOH) ₂ Batch-II	unit-II organic chem B.Sc-I Completed Local holiday
Comparison of M.O. and V.B. models. Huckel theory. Application of Huckel theory to ethene, propene, etc.	To determine Surface tension by stalagmome- ter. B.Sc-I (Batch, II) Analysis of an organic Mixture containing two solid comp, using water	unit-II Physical chem B.Sc-III Completed
Application bond model and Huckel theory to ethene, propen etc.	for separation Comp A -  Comp B - $\text{NH}_2\text{SO}_2\text{NH}_2$ B.Sc-III (Batch I, II)	Sunday
Introduction to spectroscopy	Identification of organic compound - COOH , 	B.Sc-II practical Batch - I, II

Signature _____

(4)	(5)	(6)
<p>characterization of electromagnetic radiation, regions of the spectrum.</p> <p>Representation of spectra, width and intensity of spectral transitions. Rotational spectrum of Diatomic molecules.</p> <p>Energy level of a rigid rotor, selection rule determination of bond length.</p>	<p>through the functional group analysis determine</p> <p>Introduction to Chemistry practical physical chemistry</p> <p>(i) surface tension and (ii) viscosity measurement</p> <p>B.Sc - I (Batch I, II)</p> <p>→ To determine the % composition of a given mixture by viscometer method</p> <p>B.Sc - I (Batch I, II)</p>	<p>practical B.Sc - I</p> <p>Practical B.Sc - I</p>
		Dusshra
		Dusshra
		Dusshra
		Sunday
		C.L.
		Milad-un-Nabi
<p>Qualitative description of non-rigid rotator, isotopic effect.</p> <p>Vibrational Spectroscopy: Fundamental vibration and their symmetry.</p>	<p>→ To determine the % composition of a given mixture by viscometer method</p> <p>B.Sc I (Batch - I, II)</p>	<p>practical B.Sc - I</p> <p>practical B.Sc - I</p>

Signature _____

(4)	(5)	(6)
Vibrating diatomic molecules.	Separation - B.Sc-III Comp A - <chem>c1ccc(O)cc1</chem> Comp B - <chem>C6H12O6</chem>	C.L. Unit-I, Physical Chem, B.Sc-I Completed Sunday
Energy level of simple harmonic oscillator, selection rules, pure vibrational spectrum.	Analysis of an organic compound through functional group (-COOH), <chem>(CH2(COOH))2</chem> B.Sc-IT (Batch-I, II)	Unit-II, Organic Chem B.Sc-III II, Completed
Determination of force constant, anharmonic oscillator.	Analysis of an organic compound through function group - Introductory organic chemistry B.Sc-I, (Batch I, II)	practical B.Sc-I practical B.Sc-I
Raman spectrum - concept of polarizability quantum theory of Raman spectra, Stokes and anti-Stokes lines.	analysis functional group - (COOH)	
Pure rotational and pure vibrational Raman spectra, Application of Raman spectra, and their use.	Analysis of an organic mixture containing two solid comp using water for separation Comp A - <chem>c1ccc(O)cc1</chem> Comp B - <chem>C6H12O6</chem> Comp A - <chem>c1ccc(O)cc1</chem> Comp B - <chem>NH2COH2</chem>	B.Sc-IT (Batch I, II)

Signature _____

Theory B.Sc - III	Practical B.Sc - I, II, III	Tutorial Remedial class for slow learners	Remarks
Haworth projection and conformational structure.	Analytic of function GP - Carbohydrate		
Interconversion of aldose and ketoses, Killiani Fischer synthesis.	B.Sc - I, II (Batch - I, II)		
Ruff degradation; disaccharides - structural comparison of maltose, lactose and sucrose.	Synthesis of organic compound Aliphatic electrophilic substitution preparation of iodoform form ethanol		Unit - III organic Physical Chemistry B.Sc - II Completed
Polysaccharides - elementary treatment of starch and cellulose.	and acetone B.Sc - III (Batch, I, II)		
<hr/>			Sunday
Introduction to Amino Acids, Proteins and nucleic acids.	Analysis of element (Nix) analysis of an organic compound through	stereochemistry - optical isomerism optical activity, specific rotation	unit - VI Inorganic chemistry B.Sc - I Completed

B.S. Signature

5 Practical B.Sc-I, II, III	6 Tutorical Classes	7 Remedial / MMP Classes	8 Remarks
Functional group deter- mine - CONH_2 Comp - NH_2 , CONH_2 B.Sc-II	Semiconductors Lattice energy, Aron-Haber cycle. B.Sc-I.	rotation, chirality Asymmetry, Enan- tiomers, molecular with two or mor chiral-centers	Remedial classes for slow learners B.Sc-I
Semi-micro qualitative analysis of mixture note more than two anion and two cations, excluding interfering, salt test + Test B.Sc-I (Batch II)			
To verify Beer Lambert law for KMnO_4 and determine the concen- tration of the give solution of the substance B.Sc-III (Batch, I, II)			Unit-III Organic Chemistry B.Sc-I Completed

5	6	7	8
Analysis of an organic comp through Functional group - OH org., COH COOH qualitative Analysis of inorg. mixt. two cation. NH_4^+ , Al^{3+} and two anion CO_3^{2-} and SO_4^{2-} B.Sc - I (Batch I, II)	Physical Significance of entropy, Gibbs and Helmholtz free energy equation.	D/L, d/l System of nomenclature, Cann-Ingold-Prelog system, R/S nomenclature B.Sc - I slow learners	Sunday O.D. Unit-III Organic Chemistry B.Sc - III Completed
To verify Beer Lambert law for $\text{K}_2\text{Cr}_2\text{O}_7$ & determine the conc. of given soln.			Chaitanya Jayanti Sunday
Determination of Rf value and identification of organic comp. separation of green leaf	One Dimensional Box. Radial and angular wave function. B.Sc - III	Basic Organic Chemistry - Resonance, mesomeric effect, hyperconjugation, organic reaction. B.Sc - I fast learners	Unit-IV Physical Chemistry B.Sc - II Completed

Signature _____

5	6	7	8
pigment used spinach leave may be used B.Sc - II Batch. I, II	Arrhenius Theory physical significance	Introduction of Aliphatic Hydrocarbon, carbon carbon- σ and π bond B.Sc I slow learner	
Analysis of inorganic mixture Two cation CH_3COO^- and NH_4^+ two cation 2^+ , 3^+			23 to 25 winter vacation
Separation of green leaf pigment spinach leaf used, chrom- atograph method detection of R_f value B.Sc - II (Batch. I, II)		Aldehydes and ketones - preparation mechanism and rearrangement, synthesis and their mechanism B.Sc - II fast learner	sunday
Inorganic mixture		Thermodynamic I law - Jule Thompson experiment, First law enthalpy, variables. B.Sc - II slow learner	

Signature _____

Practical B.Sc-I, II, III	Tutorial/MMP classes	Remedial classes	Remark
Estimation of Barium as BaSO ₄ B.Sc-III, (Batch-I, II)	Esain		
			Sunday C.L.
	Nernst distribution law	Spectroscopy - Introduction, classification - Vib, Rot & Electronic, Principle - B.Sc - III slow learners	Unit - IV Organic chemistry B.Sc-I Completed
			Internal Examination B.Sc-I, II III
			Sunday
			Internal Exam Unit - V Inorganic chemistry B.Sc-II Completed

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6

7

8

Sunday
Local
holiday

Basic of organic
chemistry -

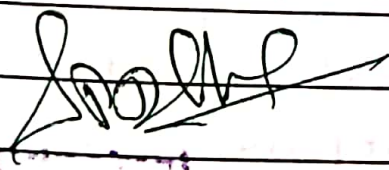
Basic B.Sc-I, Solu
Jerners

Chemistry of
Aliphatic Hydro-
carbon - B.Sc-I

fast learners.

unit-V
organic
chemistry
B.Sc-I
Completed

Practical B.Sc I, II, III	Tutorial / MMP classes	Remedial classes	Remark
	Collision frequency, collision parameters, liquid fraction ion of gases and their application	electrochemistry I - electrolytic conductance, Theory of strong electrolyte, Migration of ion - B.Sc-III slow process.	Sunday unit - II organic chemistry B.Sc-III Completed



Patre
(Dr. Sandhya Patre)
Asst. Professor
Dept of Chemistry

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(5)

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Practical B.Sc-I, II, III	Tutorial / TMA classes	Remedial class	Remark
	Vander Waals derivation and application	Organometallic Reagents - organo magnesium, organozinc and organolithium Compound, Carbo- hydrate - mono, di and tri. Polysaccharide Occurrence and biological importance B.Sc-II, fast learners	Unit-I Part Physical Chemistry B.Sc-II Completed
			C.L
			C.L
Verify Lambert Beer Law and determine			

5	6	7	8
esterification		Photochemistry.	B.Sc. II
acetic acid		Jablonski diagram	Practical
dimerised		fluorescence,	Completed Batch III
mercuric		phosphorescence,	
negot using NaOH.		non radiative process	
B.Sc. II		photochemistry law	
Batch - I, II		B.Sc. - III slow learners	
titrimetric		Spectroscopy - IR,	
analysis of acetic acid		UV-Visible and	
d in vinegar using NaOH.		NMR, ¹³ C NMR spectroscopy	
analysis of		B.Sc. - III fast learners	
radical			unit - II
Ba ²⁺ , SO ₄ ²⁻			Physical
Cu ²⁺ , Ni ²⁺			Chemistry
			B.Sc. - I
			Completed
analysis of			

5	6	7	8
Determination of the transition temperature of the given substance by thermometric method, B.Sc-III		Chemical Kinetic, catalysis, Solid State chemistry B.Sc-T fast learners	Sunday Unit-IV Physical Chemistry B.Sc-III Completed
Determination of the transition temperature of the given substance by thermometric method B.Sc-II		Mathematical Concepts, Log of the graph, slope, intercept, differential, integration, vectors, matrices, permutation and probability B.Sc-I, slow learners	Unit-IV Organic Chemistry B.Sc-II Completed
Paper analysis Radical NO_2^- , SO_3^{2-} SO_4^{2-} , SO_3^{2-}			Unit-IV Physical Chemistry B.Sc-I Completed

Practical B.Sc - I, II, III	Tutorial classes MMP classes	Remedial classes	Remarks
			Sunday
		chemistry of Halides , alcohols, phenols aldehydes and ketones, carboxylic acids, carboxalic derivatives -	B.Sc. II Part Practical Completed
		B.Sc - II, fast learners	
		Thermochemistry, thermodynamic - II second law, carnot cycle, theorem, entropy, entropy change reversible irreversible, Gibbs Helmholtz equation Third law of thermodynamic absolute entropy of molecules.	
		B.Sc - II slow learners.	
			unit - V physical chemistry B.Sc - III completed
Determination of interfering radical F ⁻ and CO ₃ ²⁻ and need to remove them			unit - VI Organic chemistry B.Sc - II completed

Signature _____

