

CARMEL COLLEGE, MALA

Nationally Re-accredited with 'A'grade (Third Cycle)
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E-mail: carmelcollege@rediffmail.com, Website: www.carmelcollegemala.ac.in



Criteria II

Teaching- Learning and Evaluation

2.2.1. The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Submitted to



THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

Peer Tutoring 2021–2022

Teacher in charge

: Neethu Sunny

Semester

: III Semester M Sc Chemistry

PAPER:

: Molecular Spectroscopy

Name of the Peer Tutors

: Ayishashifanath P, Sreya N.P & Priya Poulose

Peer Learners:

Alsha C.A

Annmariya Jibby M

Arathy K.T

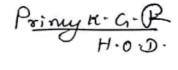
Bhavya Babu

Bhivya Babu

Roshini Babu A

Shilpa M.G

Session	Date	Topic covered	Absentees
1	28/2/2022	Determination of Structure by NMR data	Nil
2	2/3/2022	Fragmentation Patterns of Organic Molecules	Nil
3	4/3/2022	Calculation of wavelength of Absorption of Organic Dienes	Nil
4	7/3/2022	Combined Problems on NMR,IR,UV-Visible & Mass Spectroscopy	Nil





Peer Tutoring 2021- 2022

Teacher in charge

: Dr. Vidya Francis

Semester

: IV Semester B Sc Chemistry

PAPER:

: Organic Chemistry- I

Name of the Peer Tutors: Sreetha K A, Anabel Elizabeth Jiji

Peer Learners:

Nikhila Sibi

Anjali Krishna K

AbhinasreeAnand

VismayaP

Milu Thomas

Arya K S

Nivedya T K

Agnes E J

Muna Abdul Azeez R K

Jija P S

Session	Date	Topic covered	Absentees
1	21/02/2022	Confirmations of ethane and butane	All Present
2	22/02/2022	Stability of confirmations based in PE diagram	All Present
3	23/02/2022	Bayer's Strain Theory	All Present
4	23/03/2022	Confirmations if cyclohexane	All Present
5	24/03/2022	4/03/2022 Stability of 2 extreme confirmations of cyclohexane	
6	25/03/2022	Configurations	All Present

Dx. Vidya Framis of



Priny K.G. P.

Peer Tutoring 2021 – 2022

Teacher in charge

: Dr. Vidya Francis

Semester

: III Semester B Sc Chemistry

PAPER:

: Physical Chemistry- I .

Name of the Peer Tutors:

Afeeha Parvin K A, Sreetha K A

Peer Learners:

Nivedya T K Anjali Krishna Milu Thomas Vismaya P Agnes E J Arya K S Nikhila Sibi

Muna Abdul Azeez R K

Session	Date	Topic covered	Absentees
1	14/06/2021	Schrodinger Equations	All Present
2	17/06/2021	Hermition, Hamilltonian and Laplacian operators	Muna Abdul Azeez R K
3	18/06/2021	Postulates of Quantum mechanics	All Present
4	7/7/2021	Particle in 1D box	All Present
5	8/7/2021	Particle in 3D box	All Present

Dr. Vidga Fromis of.



Prinyk-G.P

Peer Tutoring 2021-2022

Teacher in charge

: Dr. Roshini K.Thumpakara

Semester

: VI Semester B Sc Chemistry

PAPER:

: Organic Chemistry III

Name of the Peer Tutors

Alenda Joy

Peer Learners:

Thasleema Vyshnavi C C Vyshnavi Kartha Himalakahmi V S Hridya C R Jigitha Sajan

Session	Date	Topic covered	Absentees
1	23/2/2022	UV Visible Spectroscopy,common type	All Present
		of transitions	
2	24/2/2022	Nature of spectrum-effect of conjugation	All Present
3	25/2/2022	Introduction, Origin of spectra	All Present
4	28/2/2022	IR Spectroscopy-introduction-types of	All Present
f		vibration-origin-essential condition-	
		types of molecules which gives this.	
5	3/3/2022	NMR-Introduction-nuclear spin states-	All Present
		spin state of proton	
6	4/3/2022	Theory of chemical shift	All Present

RLP



Pormy K. G. P.

Peer Tutoring 2021-2022

Teacher in charge

: Dr. Roshini K.Thumpakara

Semester

: V Semester B Sc Chemistry

PAPER:

: Organic Chemistry II (CHE5BO7)

Name of the Peer Tutors: Diya Rose Davis

Peer Learners:

Thasleema Vyshnavi C C Vyshnavi Kartha Himalakahmi V S Hridya C R Jigitha Sajan

Session			Absentees
1	27/7/2021	Reactions of Amines: Reaction with Acids, Alkylation	Nil
2	30/7/2021	Reactions of Amines: Acylation, Benzoylation	Nil
3	2/8/2021	Reactions of Amines: Action with Nitrous Acid	Nil
4	05/8/2021	Electrophilic substitution reactions of aniline: Halogenation, nitration	Nil
5	09/8/2021	Electrophilic substitution reactions of aniline: Sulphonation	Nil
6	10/10/2020	Amines preparation- From nitro compounds, nitriles, isonitriles	Nil .

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Pringk, G. P.

Peer Tutoring 2021-2022

Teacher in charge

: JOICY P J

Semester

: I Semester M Sc Chemistry

PAPER:

: CHE1C01- Quantum Mechanics & Computational Chemistry

Name of the Peer Tutors

: ASHIBA E.A & ANCY C.P & AYILLYA DEVARAJ

Peer Learners:

Anjali P J Neema Joy Angel A J Sandra Sabu Anusree

Session	Date	Topic covered	Absentees
1	25/01/2022	Particle in a one Dimensional box	All Present
2	07/02/2022	Particle in a three Dimensional box	Sandra Sabu,Ashiba E.A
3	17/02/2022	Simple Harmonic Oscillator	All Present
4	11/03/2022	Particle in a Sphere	All Present
5	23/03/2022	Hydrogen like atoms	All Present



Pring K. G.P.

<u>2021-2022</u>

REMEDIAL TEACHING

Semester: I

Teacher incharge: Neethu Sunny

SL.NO.	DATE	TOPIC
1.	8/18/2022	Conformation of acyclic compounds – Ethane & n- butane
2.	10/12/2022	Conformation of acyclic compounds –,alkene dihalides &glycols
3.	14/12/2022	Conformation of acyclic compounds –chlorohydrines& tartaric acid
4.	21/2/2022	Conformation of acyclic compounds. Fruthro and three icomer
5.	10/1/2022	Conformation of 2-bromocyclohexanone, dibromocyclo hexanone, (cis & trans), 2-bromo-4,4-dimethyl cyclohexanone.
6.	17/1/2022	Conformation of dibromocyclo hexanone, (cis & trans)
7.	27/1/२०२२	Conformation of 2-bromo-4,4-dimethyl cyclohexanone
8.	3/2/2022	Conformations of 1,4 -cis and -trans disubstituted cyclohexanes
9.	4/2/2022	Effect of conformation on the course and rate of reactions in (a) debromination of dl and meso 2,3-dibromobutane or stilbene dibromide using KI.
10.	२४/२/२०२२	Semipinacolic deamination of erythro and threo 1,2-diphenyl-1- (p-chlorophenyl)-2-amino ethanol.



MARK LIST-2020-2022(I SEM)

Sl.No.	NAME	Pass percentage	Pass percentage after
		(Previous exam)	coaching
1.	Neema Joy	21%	40%
2.	Jasheena P.J	38%	50%
3.	Angel A.J	30%	55%
4.	Dini Paul	28%	45%
5.	Neena Wilson	40%	55%
6.	Sandra Sabu	45%	48%
7.	Anusree P.S	35%	50%



Dr. PRINCY K.G.
ASSOCIATE PROFESSOR & HEAD
DEPT. OF CHEMISTRY

CARMEL COLLEGE, MALA

Attendance for Remedial teaching 2021-2022

Teacher in charge

: Neethu Sunny

Semester

: I

Subject

: CHE1C03-Structure and reactivity of organic compounds

SI.	Name of the student		Date and Time								
No.		<i>8/1२ २०२२</i>	10/12/2022	14/12/202	था/।य/५२	10/1/22	17/1/22	૨૨/1/૨૨	3/२/२२	4/2/22	28/2/22
		3:30-4:30		3:30-4:30	3:30-4:30	3:30-4:30	3:30-4:30	3:30-4:30	3:30-4:30	3:30-4:30	3:30-4:30
1.	Neema Joy	Deems	Dearing	Deeme	Domo	Downer	Meering	Charmer	Carrie	Sooms	Dearing
2.	Jasheena P.J	4	G ST			600		000	Carried States	02	0
3.	Angel A.J	vgo.	MON	Y GO		Vale .	120	198D	West of the second	1000	V See !
4.	Dini Paul	Vini	Door	Din	Dire	Dir	Dist	Dis	Dist	2	al and
5.	Neena Wilson	News	Niem	Neer	Nut	News	New	Nagat	Nmo	Mount.	North
6.	Sandra Sabu	Warn.	Levely	Candist .	Comina	4 de	Cambrie	Ludie	Look	Gordin .	Suller

Teacher in charge

Dr. PRINCY K.G.
ASSOCIATE PROFESSOR & HEAD.
DEPT. OF CHEMISTRY
CARMEL COLLEGE, MAL Signature (HOD)

2021-2022

REMEDIAL TEACHING

Semester: II

Teacher incharge: Neethu Sunny

SL.NO.	DATE	TOPIC
1.	10/6/2022	Construction of Γcart, normal coordinates and drawings of normal modes of H₂O and NH₃
2.	13/6/2022	Determination of IR active and Raman active modes of molecules H ₂ O & NH ₃
3,	2 0 /6/2022	Determination of IR active and Raman active modes of molecules CH ₄ & SF ₆
4.	२३/६/२०२२	Direct product of irreducible representations and its use in identifying vanishing and non –vanishing integrals
5.	28/4/2020	Transition moment integral and spectral transition probabilities
6.	30/6/2022	Electronic Spectra – electronic transitions and selection rules
7.	4/7/2022	Treatment of hybridization in BF ₃ and CH ₄ ,
8.	5/7/2022	Molecular orbital theory – HCHO and H ₂ O
9.	6/7/2022	Symmetry adapted linear combinations (SALC)
10.	7/7/2022	Construction of SALCs for the π MOs in cyclopropenyl ($C_3H_3^+$) cation



MARK LIST-2021-2022(II SEM)

Sl.No.	NAME	Pass percentage (Previous exam)	Pass percentage after coaching
1.	Neema Joy	34%	40%
2.	Jasheena P.J	32%	50%
3.	Angel A.J	44%	54%
4.	Dini Paul	38%	55%
5.	Neena Wilson	45%	60%
6.	Sandra Sabu	45%	52%

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Attendance for Remedial teaching 2021-22

Teacher in charge

: Neethu Sunny

Semester

: II

Subject

: CHE2C05-Group Theory and Chemical Bonding

SI.	Name of the student	dent Date and Time									
No.		10/6/22	13/6/22	२०/६/२२	23/6/22			4/7/22	5/7/22	6/7/22	7/7/22
1	Neema Joy	3:30 - 4:30	3:30-4:30	3:30-4:30	3:30-4:30	3:30-4:30	3:30-4.30	3.30-4.30	3.30-4.30	3:30-4:30	3:30-4:30
2.	Jasheena P.J	Negast.	Deemer	Posaro	Daniel	Deama	Charma	Decome	Deans	1 Dearna	Dooma,
3.	Angel A.J	VOE	CONTRACTOR OF THE PARTY OF THE		_	NAOD.	60	600			Barrel Contraction of the Contra
4.	Dini Paul	Deni	Qr.	Bani	Die	Dim	Dir	Dini	Diri-	Nine .	Quet-
5.	Neena Wilson	News	News	Next		Next		Nues	whent	North	Most
6.	Sandra Sabu	James	Leadin	agent	1 more		Lange	Cardar	1 Die	Randia	(and a

Neeth

Teacher in charge

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LIST OF SLOW LEARNERS 2021 - 2022

Teacher in charge : Dr. Vidya Francis Semester : III-IV Semester

Marks Scored < 50%

Sl. No.	Name of the student
ι.	Anupama Biju
2.	Jija P.S
3.	Sandra Santhosh K
4.	Adithya P A
5.	Anabel Elizebath Jiji
6.	Anjali Krishna
7.	Emily Manoj
8.	Manjima
9.	Muna Abdul Azeez R K
10.	Salmiya Anzar Chundekkad
11.	Vishnupriya Thambi

List of Advanced Learners 2020 - 2021

Marks Scored > 90%

Sl. No.	Name of the student
1.	Sreetha K A
2.	Henet Babu
3.	Krishnapriya M

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Signature (HOD)

Dr. PRINCY K.G.

ASSOCIATE PROFESSOR & HEAD

DEPT. OF CHEMISTRY CARMEL COLLEGE, MALA

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Class Test -2021-22

Teacher in charge : Dr. Vidya Francis

Name	Physical Chemistry-1 Maximum Mark (20)	%
ABHINASREE ANAND	11	55
ABIYA P J	15	75
AINA BABU	13	65
ALEENA LOWRANCE	15	75
ANUPAMA BIJU	7.5	37.5
JIJA P S	8	40
MILU THOMAS	17	85
NIVEDYA T K	18	90
SANDHRA SANTHOSH K	8.5	42.5
SREETHA K A	19.5	97.5
ADITHYA P A	9.5	47.5
AFEEHA PARVIN K A	15	75
AGNES E J	14.5	72.5
ANABEL ELIZABETH JIJI	8.5	42.5
ANGEL MARIYA BENNY	10.5	52.5
ANJALI KRISHNA K	8	40
ARYA K S	14	70
ARYA T T	16	80
DELNA JOSEPH	10.5	52.5
DONIYA DAVIS	14	70



3.5	17.5
	.97.5
	100
20	40.000
9	45
9	45
15	75
	70
14	
0.5	47.5
9.5	27.5
5.5	27.5
10	50
	9 15 14 9.5 5.5

Primy K. G.P



Advanced and Slow learners - Assessment parameters

2021-22

Advanced learners and slow learners are identified in the first year based on the performance in bridge course examination. Participation in classroom activities, internal examinations, class tests are also used as a criterion to identify and categorize second and third year students as slow and advanced learners.

Prince K. G.P



Slow learners -Activity Report 2021-22

For slow learners, the following support programmes are extended:

- Remedial Coaching: Remedial coaching is given to average learners. Departments
 arrange these classes before or after regular teaching hours or on holidays. The
 attendance, mark lists and progress of students are recorded and maintained every year.
- Providing peer tutoring by high ability classmates
- Encouraging them to articulate orally in the class & providing more chances for classroom participation
- Enrichment programmes: by resource persons with varied expertise are organized
- Counseling: A trained counselor is available at the college on select days to counsel students who face difficulties ranging from learning disabilities to emotional and psychological stress. Tutors too take special care to counsel such students and persuade them to continue their studies.
- Interaction with Parents: The tutors also meet the parents of such students and advise them on the need to provide a conducive atmosphere at home for the students to pursue their studies.





Advanced learners -Activity Report 2021-22

For Advanced learners, the following support programmes are extended:

- Students are encouraged to pursue Summer Research Programmes and other research projects at premier institutions and to make seminar presentations both inside and outside the campus.
- Encouraged the learners to take up advanced topics for seminars/projects /dissertations.
- All students are exposed to peer group learning where, the advanced learners take on a teaching role in order to help slow and weak learners.
- Motivating them to involve in research projects to inculcate research orientation and higher studies aspirations
- Helping them to participate in group discussions, technical quizzes to develop analytical and problem-solving abilities in them and thereby, to improve their presentation skills.
- Stress management trainings given.
- Encouraged the students to participate in coaching classes on PSC, Bank, Civil
 Service etc organised by our college and outside.
- Motivate to enrol in MOOC courses



Primy K-G.P

Department of Chemistry List of Slow Learners 2021 – 2022

Teacher in charge: Dr. Roshini K.Thumpakara

Semester : I-II Semester

Marks Scored < 50%

Sl. No.	in with	Name of the student		
_ ju = 1 _ j				
1.		ASHMI C B	P	v graf
2.		ASWATHY ASHOKAN		
3.		ASWATHY S		W
4.		HARIPRIYA M H		
5.		LAKSHMI K V		telle.

List of Advanced Learners 2021 – 2022

Marks Scored > 90% (Bridge course)

Sl. No.	Name of the student	
1.	DEEPIKA DAS	
2.	ARADHYA S	(F) HX
3.	ATHILA V.B	No.
4.	ASHALAKSHMI P	
5.	SREENANDANA N R	



Dr. PRINCY K.G.
Signature (HOP) R & HEAD
DEPT. OF CHEMISTRY
CARMEL COLLEGE, MALA

Carmel College, Mala Department of Chemistry Ist Semester Internal Examination - Chemistry

No	Name	Ist Internal Max Mark (60)
1.	ALSHABA M M	32
2.	ANJANA K S	41
3.	ANJU PRAKASH P	48
4.	ARADHYA S	55
5.	ARDRA K B	40
6.	ASHALAKSHMI P	55
7.	ASHMI C B	20
8.	ASWATHY ASHOKAN	20
9.	ASWATHY S	19
10.	DEEPIKA DAS	59
11.	HARIPRIYA M H	15
12.	HISHANA FATHIMA	32
13.	KEERTHANA UNNIKRISHNAN	20
14.	LAKSHMI K V	5
15.	RENI K A	33
16.	RIYA A R	51
17.	SAVERA SANTHOSH	34
18.	SREENANDANA N R	59
19.	SWATHY MP	31
20.	ATHILA V.B	55



Teacher in Charge: Neethu Sunny

Semester

:I-II

LIST OF SLOW LEARNERS 2021-2022

Marks Scored < 45%

Sl.No	Name of the Student	-	
1.	Neema Joy		
2.	Jasheena P.J	4	
3.	Angel A.J	200	
4.	Dini Paul		700
5.	Neena Wilson	905 40	
6.	Sandra Sabu		
7	Anusree P.S		- 10

LIST OF ADVANCED LEARNERS 2021-2022

Marks Scored > 65%

Sl.No	Name of the Student	
1.	Ancy C.P	
2.	Anjaly P.J	
4.	Ayillya Devaraj	
5.	Melbymol James	

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First Internal Examination 2021-22

Sl.No	Number Thermodynamics, Kinetics & Catalysis				Signature	
- 197 - 197			WGP (Out of 150)	WGPA	Percentage	
1.	ANCY C.P	CRAVMCH001	112	2.72		
2.	ANGEL A.J	CRAVMCH002	45	3.73	75%	- Marry
3.	ANJALY P.J	CRAVMCH003	98	1.5	30%	Vaca
4.	ANN THERESA PAUL	CRAVMCH004		3.26	65	Ortoidy
5.	ANUSREE P.S	CRAVMCH005	76	2.53	51%	Amanda.
6.	ASHIBA E.A	CRAVMCH006	52	1.73	35%	Oben .
7.	ASWATHY M	CRAVMCH007	63	2.1	42%	MAN.
8.	AYILLYA DEVARAJ	CRAVMCH007	84	2.8	56%	elsooth
9.	CHINJU DAVIS	CRAVMCH009	108	3.6	72%	1
10.	DINI PAUL		69	2.3	46%	Charles Ry
11.	JASHEENA P.J	CRAVMCH010	42	1.4	28%	Chipcon
	MELBY MOL JAMES	CRAVMCH011	57	1.9	38%	Win
13.	NEEMA JOY	CRAVMCH012	124	4.13		6 de
	NEENA WILSON	CRAVMCH013	31	1.03	83%	Monday
	SANDRA JOSE	CRAVMCH014	59	1.96	21%	Nous.
	SANDRA SABU	CRAVMCH015	78	2.6	40%	Neuts
	OUITOWA SARO	CRAVMCH016	69	2.3	52%	Acount



Teacher in Charge: Joicy P.J

Semester

:III-IV

LIST OF SLOW LEARNERS 2021-2022

Marks Scored < 60%

1. Alsha C.A 2. Shilpa M.G 3. Arathy K.T 4. Roshini Babu A	Sl.No	Name of the Student	W1.2	1	200	ý	:
3. Arathy K.T	1.					4	
	2.	Shilpa M.G		1			
4. Roshini Babu A	3.	Arathy K.T	d 15 g				
	4.	Roshini Babu A					- 1

LIST OF ADVANCED LEARNERS 2021-2022

Marks Scored > 85%

Sl.No	Name of the Student	
1.	Priya Poulose	
2.	Ayisha Shifanath A	
4.	Ansa Antony	
5.	Anagha Jose	

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CARMEL COLLEGE, MALA

First Internal Examination 2021-22

Sl.No	Name	Register Number	CHE1C04- Thermodynamics,Kinetics & Catalysis			Signature
			WGP (Out of 25)	WGPA	Percentage	
1.	Alsha C.A	CRAUMCH001	10	2	400/	101
2.	Anagha Jose	CRAUMCH002	23	4.6	40%	Alehe
3.	Angelisa Joy E	CRAUMCH003	18	3.6	92%	Chaf
4.	Annmariya Jibby M	CRAUMCH004	17	3.4	72%	@Ingett St
5.	Ansa Antony	CRAUMCH005	24	4.8	68%	(a)ml
6.	Anu Pauly	CRAUMCH006	21	4.2	96%	Ansa
7.	Arathy K.T	CRAUMCH007	10	2	84%	101
8.	Ayisha Shifanath A	CRAUMCH008	21	4.2	40%	73
9.	Aswathy Sabu	CRAUMCH009	24	4.8	84%	Showing
10.	Bhavya Babu	CRAUMCH010	18	3.6	96%	Aga
11.	Bhivya Babu	CRAUMCH011	19	3.8	72%	Buya
12.	Priya Poulose	CRAUMCH012	23	4.6	76%	Bhuya
13.	Roshni Babu A	CRAUMCH013	10	2	92%	RA
14.	Sandra K.F	CRAUMCH013	18		40%	Rosel
15.	Shilpa M.G	CRAUMCH015	11	3.6	72%	Sando
16.	Sreya N.P	CRAUMCH016	20	2.2	44% 80%	Ship

