Day	Class/ Section	8.15 am – 9.10 am	9.10 am – 10.05 am	10.45am -11.40am	11.40 am – 12.30 pm	12.30 pm – 1.20 pm	1.20 pm-02.10 pm
		Revision	Revision	Revision	Revision	Revision/Remedial	Remedial
	III Sem BSc MEC	Electronics III- JS	Maths III - RN	English	DBMS (AC)	Language Hin/Kan	Maths III - RN
	III Sem BSc PCM	Physics III - AB	Maths III - RN	English	Chemistry III- RG	Language Hin/Kan	Maths III - RN
	V Sem BSC MEC	Electronics V - MM	Maths VI - PK	Electronics VI- JS	VP (LCB)	Maths V - RN	Maths VI - RAK
MON	V Sem BSc PCM	Maths VI (RAK)	Maths VI - PK	Chemistry VI- N	Physics VI - AB	Maths V - RN	Maths VI - RAK
	III Sem BSc MEC	Maths III - RN	Language Hin/Kan	DBMS (AC)	Lib	English	English/AE
	III Sem BSc PCM	Maths III - RN	Language Hin/Kan	Lib	Chemistry III- RG	English	English/AE
	V Sem BSC MEC	Maths VI (RAK)	Maths VI - PK	VP (LCB)	Electronics VI- JS	Java (NKV)	Electronics V - MM
TUE	V Sem BSc PCM	Chemistry V- RG	Physics VI- AB	Chemistry VI - N	Physics V - MCV	Physics V - MCV	Chemistry VI - N
	III Sem BSc MEC	CSC -SE LCB	English	Electronics III - JS	Electronics III - JS	Maths III - RN	CSC -SE LCB
	III Sem BSc PCM	Physics III - AB	English	Chemistry III - RG	Chemistry III - RG	Maths III - RN	Physics III - AB
	V Sem BSC MEC	Maths VI - RAK	VP (LCB)	VP (LCB)	Lib	Java (NKV)	Electronics VI- JS
WED	V Sem BSc PCM	Chemistry V- RG	Maths V - RN	Maths VI - RAK	Physics V- MCV	Physics VI - AB	Chemistry V- RG
	III Sem BSc MEC	DBMS- AC	Language Hin/Kan	Electronics III - JS	Maths III - RN	Maths III - RN	Language Hin/Kan
	III Sem BSc PCM	Physics III - AB	Language Hin/Kan	Chemistry III - RG	Maths III - RN	Maths III - RN	Language Hin/Kan
	V Sem BSC MEC	Java (NKV)	Electronics V - MM	Java (NKV)	Electronics VI- JS	Electronics VI- JS	Maths V - PK
THU	V Sem BSc PCM	Chemistry VI- N	Physics VI - AB	Maths VI - RAK	Chemistry V- RG	Physics VI -AB	Maths V - PK
	III Sem BSc MEC	Maths III - RN	CSC -SE LCB	Language Hin/Kan	Electronics III- JS	Electronics III- JS	DBMS- AC
	III Sem BSc PCM	Maths III - RN	Chemistry III- RG	Language Hin/Kan	Physics III - AB	Physics III - AB	Chemistry III- RG
	V Sem BSC MEC	Maths V (PK)	Library	Electronics V - MM	Electronics V - MM	VP (LCB)	Java (NKV)
FRI	V Sem BSc PCM	Chemistry VI- N	Physics V- MCV	Chemistry VI- N	Maths VI - PK	Maths V- RN	Physics V- MCV
	III Sem BSc MEC	Maths III - RN	English	CSC -SE LCB	Electronics III- JS	NCP- MM	
	III Sem BSc PCM	Maths III - RN	English	Chemistry III- RG	Physics III - AB	NCP- MM	
	V Sem BSC MEC	Electronics VI- JS	VP (LCB) -L1	Maths V - RN	VP (LCB)	NCP	
SAT	V Sem BSc PCM	Maths VI - RAK	Chemistry VI- N	Physics V- MCV	Maths V - RN	NCP	

HEAD
Department of Science
St. Francis de Sales College
Bengaluru - 560 100.

2021-22 (Even Sem Time Table)

Day	Class/ Section	8.15 am – 9.10 a	9.10 am – 10.05	10.45am -11.40	11.40 am – 12.3	12.30 pm – 1.20	1.20 pm-02.10 pm
Mon	II Sem BSc A	English (409)	E2-MM (410)	E1-MM (410)	CS-NKV- L1	CS-NKV- L1	OE
	II Sem BSc B	English (409)	CC- N (107)	PSY1 (107)	CS-NKV- L1	CS-NKV- L1	OE
	II Sem BSc C	English (409)	CC-N (107)	MATHS- RAK (41	CS-NKV- L1	CS-NKV- L1	OE
	IV Sem BSC	English (409)	PHY 2-MCV (405	MATHS- RAK (41	LIB	Health & Wellne	OE
	VI Sem BSc MEC		CC-N (107)	MATHS- RAK (41	CHE LAB-N	CHE1 LAB-N	OE
	VI Sem BSc PCM		PHY 2-MCV (405	Lab Activity - IA	CHE LAB-N	CHE1 LAB-N	OE
Tue	II Sem BSc A	CS-NKV (410)	OMT - JS	E LAB-MM	E1 LAB-MM	Language Hin (3	OE
	II Sem BSc B	CS-NKV (410)	OMT - JS	PSY (107)	LIB	Language Hin (3	OE
	II Sem BSc C	CS-NKV (410)	OMT - JS	MATHS I LAB- R/	MATHS I LAB- R/	Language Hin (3	OE
	IV Sem BSC	LIB	Digital Fluency-	MATHS I LAB- R/	MATHS I LAB- R/	Language Hin (3	OE
	VI Sem BSc MEC	CHE -N (409)	Digital Fluency-	MATHS I LAB- R/	MATHS I LAB- RAK		OE
	VI Sem BSc PCM	CHE -N (409)	Digital Fluency-	CC-PK (409)	LIB		OE
Wed	II Sem BSc A	E LAB-MM	E LAB-MM	CS-NKV (410)	Language Hin (3	English (409)	OMT-RAK
	II Sem BSc B	PSY 1 LAB	PSY 1 LAB	CS-NKV (410)	Language Hin (3	English (409)	OMT-RAK
	II Sem BSc C		LIB	CS-NKV (410)	Language Hin (3	English (409)	OMT-RAK
	IV Sem BSC		LIB	LIB	Language Hin (3	English (409)	PHY 1-MCV (409)
	VI Sem BSc MEC	CHE LAB-N	CHE LAB-N	CHE 1-N (409)			Lib
	VI Sem BSc PCM	CHE LAB-N	CHE LAB-N	CHE 1-N (409)			PHY 1-MCV (409)
Thu	II Sem BSc A	E1-MM (410)	CS-NKV (410)	English (409)	CC- MM (410)	Language Hin (3	EC/CC
	II Sem BSc B	PSY1 (107)	CS-NKV (410)	English (409)	CC- MM (410)	Language Hin (3	EC/CC
	II Sem BSc C	LIB	CS-NKV (410)	English (409)	MATHS- RAK (41	Language Hin (3	EC/CC
	IV Sem BSC	PHY LAB -MCV	PHY LAB -MCV	English (409)	MATHS- RAK (41	Language Hin (3	EC/CC
	VI Sem BSc MEC	LIB	CHE -N (409)		MATHS- RAK (410)		
	VI Sem BSc PCM	PHY LAB -MCV	PHY 1 LAB -MCV		CHE -N (409)		
Fri	II Sem BSc A	E1-MM (410)	CS-NKV (410)	English (409)	OMT-JS	Seminar- NKV (4	Language Hin (312) /Kan (409)
	II Sem BSc B	PSY1 (107)	CS-NKV (410)	English (409)	OMT-JS	Seminar- NKV (4	Language Hin (312) /Kan (409)
	II Sem BSc C	MATHS- RAK (41	CS-NKV (410)	English (409)	MATHS I LAB- R/	MATHS I LAB- R/	Language Hin (312) /Kan (409)
	IV Sem BSC	MATHS- RAK (41	Lib	English (409)	MATHS I LAB- R/	MATHS I LAB- R/	Language Hin (312) /Kan (409)
	VI Sem BSc MEC	MATHS- RAK (41	Digital Fluency-	RN	MATHS I LAB- R/	MATHS I LAB- RAK	
	VI Sem BSc PCM	Health & Wellne	Digital Fluency-	RN	Lib	Seminar - MCV (409)	
Sat	II Sem BSc A	CS-NKV- L1	Seminar-MM (4	OE	CS-NKV- L1	Health & Wellness/Yoga- AB	
	II Sem BSc B	CS-NKV- L1	Activity - AS (Lal	OE	CS-NKV- L1	Health & Wellness/Yoga- AB	
	II Sem BSc C	CS-NKV- L1	MATHS- RAK (41	OE	CS-NKV- L1	Health & Wellness/Yoga- AB	
	IV Sem BSC	PHY 1-MCV (405	MATHS- RAK (41	OE	PHY 1 LAB -MCV	PHY 1 LAB -MCV	
	VI Sem BSc MEC	CHE 1-N (409)	MATHS- RAK (41	OE	LIB		
	VI Sem BSc PCM	PHY 1-MCV (405	CHE 1-N (409)	OE	PHY 1 LAB -MCV		

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A FRANSALIAN INSTITUTE OF HIGHER LEARNING

DEPARTMENT OF SCIENCE
REMEDIAL CLASS REPORT

SUBJECT: MATHEMATICS VII Faculty : Pandikani

VI Sem PCM & MEC

edial classes during the academic year 2021-22 was conducted as per the following tir

Sl No	Roll No	Name of the student	Dates	
			16/9	17/9
1	19PCM003K	Arun.M	P	P
2	19PCM004E	Ashish Robin	P	P
3	19PCM009K	Chandana	P	P
4	19PCM011K	Devi.P	P	P
5	19PCM012K	Jackwin.J	A	P
6	19PCM017K	Dundaiah.M	P	P
7	19PCM018E	Malika arjun.K	P	P
8	19PCM022K	Santhosha	P	P
9	19PCM025k	Tharun.V	P	P
10	19PCM028T	Velu.S	P	P
11	19PCM036K	Chayasree	P	P
12	19PCM1037E	Ringku Mushahary	A	P
13	19MEC006K	Hithesh	P	P
14	19MEC008TA	Manoj Kumar	P	P
15	19MEC010K	Punitha	P	P
16	19MEC012K	Sandhya	P	P
17	19MEC014H	Sanjay Singh	A	P
18	19MEC017K	Sounder.R	P	P
19	19MEC019K	Sujin Paul	P	P
20	19MEC020K	Sumiksha	P	P
21	19MEC022K	Yogasathish.S	A	P
22	19MEC024K	Rashmi	A	P

The details of the activities conducted is as follows:

S No	Date	Total Students	presentees	Absentees
1	16/9/22	22	17	5
2	17/9/22	22	22	0

SUBJECT:BUSINESS MATHEMATICS -II(OE)

edial classes during the academic year 2021-22 was conducted as per the following tir

		Name of the	Dates

Sl. No.	Roll No.	student	20/9	21/9
1	21D002H	Abhijith	P	P
2	21D003K	Akshatha	P	P
3	21D009K	Bhimana Gowda.Y	P	P
4	21D022K	Nagesh.K	P	P
5	21D023H	Nidhin.V.Rajesh	P	P
6	21D032K	Sherwin Antony	P	P
7	21D033H	Shikha	P	P
8	21D048TA	Sreeharan.M	P	P
9	21D059H	Ravi kumar	P	P
10	21D061K	Sam Ephreim	P	P
11	21D062H	Ankith Roy	P	P
12	21D063K	Akshay.D	P	A

The details of the activities conducted is as follows:

S.No	Date	Total Students	presentees	Absentees
1	20/9/22	12	12	0
2	21/9/23	12	11	1
3	23/9/24	12	11	1
4	24/9/25	12	11	1
5	24/9/26	12	11	1

HEAD
Department of Science
St. Francis de Sales College
Bengaluru - 560 100.

DEPARTMENT OF SCIENCE
REMEDIAL CLASS REPORT

SUBJECT: ELECTRONICS IV(MEC) FACULTY MEMBER:JENIFER SUJITHA G

The remedial classes during the academic year 2021-22 was conducted as per the following time table

Sl. No.	Roll No.	Name of the student	Dates			
			10/09/2022	11/09/2022	16/09/2022	17/09/2022
1	20MEC005TE	Mallesh N	P	P	P	P
2	20MEC014K	Hamsaveni M	P	P	P	P
3	20MEC003K	Harsha kumar V	P	P	P	P
4	20MEC006K	Manikanta R	P	P	P	P
5	20MEC010K	Harshith S	P	P	P	P

The details of the activities conducted is as follows:

S No	Date	Total Students	presentees	No. of Absentees	Activity
1	10/09/2022	5	5	nil	Revised the
2	11/09/2022	5	5	nil	Revised the
3	16/09/2022	5	5	nil	Solved the
4	17/09/2022	5	5	nil	Solved the

SUBJECT: ELECTRONICS VII

The remedial classes during the academic year 2021-22 was conducted as per the following time table

Sl. No.	Roll No.	Name of the student	Dates			
			16-09-2022	17-09-2022		
1	19MEC008TA	Manoj Kumar	P	P		
2	19MEC010K	Punitha	P	P		
3	19MEC014H	Sanjay Singh	P	P		
4	19MEC017K	Sounder.R	P	P		
5	19MEC019K	Sujin Paul	P	P		
6	19MEC020K	Sumiksha	P	P		
7	19MEC022K	Yogasathish.S	P	P		
8	19MEC024K	Rashmi	P	P		

The details of the activities conducted is as follows:

S No	Date	Total Students	presentees	No. of Absentees	Activity
1	16-09-2022	8	8	0	Solved previous
2	17-09-2022	8	8	0	Revised

HEAD
Department of Science
St. Francis de Sales College
Bengaluru - 560 100.

DEPARTMENT OF SCIENCE
REMEDIAL CLASS REPORT

SUBJECT: MATHEMATICS II **Faculty:** **Roshini Koshy**

classes during the academic year 2021-22 was conducted as per the followi

Sl No.	Roll No.	NAMES	Dates	
			22-09-2022	23-09-2022
1	21MC001K	B.G. BHARATH	P	P
2	21MC004K	SANKALPA. R	P	P
3	21CSM007K	SAI CHANDRA	P	P
4	21CSM009TE	YELLANKI DIVYA	P	P
5	21PM010K	LAVANYA.N	P	P

The details of the activities conducted is as follows:

S.No	Date	Total Students	presentees	Absentees
1	22-09-2022	5	5	0
2	23-09-2022	5	5	0
3	24-09-2022	5	5	0

SUBJECT: MATHEMATICS VIII

classes during the academic year 2021-22 was conducted as per the followi

Sl. No.	Roll No.	Name of the student	Dates	
			16-09-2022	17-09-2022
1	19MEC006K	Hithesh	P	P
2	19MEC008TA	Manoj Kumar	P	P
3	19MEC010K	Punitha	P	P
4	19MEC012K	Sandhya	P	P
5	19MEC014H	Sanjay Singh	P	P
6	19MEC017K	Sounder.R	P	P
7	19MEC019K	Sujin Paul	P	P
8	19MEC020K	Sumiksha	P	P
9	19MEC022K	Yogasathish.S	P	P
10	19MEC024K	Rashmi	P	P

The details of the activities conducted is as follows

S No	Date	Total Students	presentees	Absentees
1	16-09-2022	10	10	0
2	17-09-2022	10	10	0

SUBJECT: MATHEMATICS II (OE)

classes during the academic year 2021-22 was conducted as per the followi

Sl. No.	Roll No.	Name of the student	Dates	
			22-09-2022	23-09-2022
1	21CSEL002K	NISHAND. S	P	A
2	21CSEL004TA	PURUSHOTAMA	A	P
3	21CSEL006K	ROSHAN	P	A
4	21CSEL007K	SIDESH. P	P	A
5	21CSEL009K	SUMAN KUMAR	A	P
6	21CSEL010K	BHARATH. Y	P	A
7	21CSEL011TA	SUSHMITHA R	A	P
8	21CSEL012TA	YESHWANTH.S	P	A
9	21CSEL013K	GANESH .M	A	P
10	21CSEL044K	SATISH KUMAR K	P	A
11	21CSEL031H	SHRAVAN KARTH	P	A
12	21CP001K	ASHWINI M.N	P	P
13	21CPOO7TA	PRAVEEN KUMAR	P	P
14	21PC005TE	SURA LAKSHMI T	A	P

The details of the activities conducted is as follows:

S.No	Date	Total Students	presentees	Absentees
1	22-09-2022	14	9	5
2	23-09-2022	14	7	7

HEAD
Department of Science
St. Francis de Sales College
Bengaluru - 560 100.

DEPARTMENT OF SCIENCE
REMEDIAL CLASS REPORT

Faculty: Rashmi N

SUBJECT: MATHEMATICS IV(PCM & MEC)

nedial classes during the academic year 2021-22 was conducted as per the following tim

Sl. No.	Roll No.	Name of the student	Dates	
			10/09/2022	14/09/2022
1	20MEC005TE	Mallesh N	A	P
2	20MEC014K	Hamsaveni M	P	P
3	20PCM002H	Ancy E S	A	P
4	20PCM003K	Ankush S	P	P
5	20PCM005K	Benitto Prakash A	A	P
6	20PCM010TA	Raju A	P	P
7	20PCM016TA	Bhenny Sam S	A	P

The details of the activities conducted is as follows:

S.No	Date	Total Students	presentees	Absentees
1	10/09/2022	7	3	4
2	14/09/2022	7	7	0
3	16/09/2022	7	6	1
4	17/09/2022	7	4	3

SUBJECT: MATHEMATICS VIII(PCM)

nedial classes during the academic year 2021-22 was conducted as per the following tim

Sl. No.	Roll No.	Name of the student	Dates	
			16/09/2022	17/09/2022
1	19PCM003K	Arun M	P	P
2	19PCM011K	Devi P	P	P
3	19PCM012K	Jackwin	P	P
4	19PCM017K	M Dundaiah	A	P
5	19PCM018E	Mallikarjun K	A	P
6	19PCM022K	Santhosha	P	P
7	19PCM025K	V Tharun	P	P
8	19PCM028T	Velu S	P	P

The details of the activities conducted is as follows:

S No	Date	Total Students	presentees	Absentees
1	16/09/2022	8	6	2

2	17/09/2022	8	8	0

HEAD
Department of Science
St. Francis de Sales College
Bengaluru - 560 100.

DEPARTMENT OF SCIENCE
REMEDIAL CLASS REPORT

SUBJECT: ELECTRONICS IV(MEC)

FACULTY MEMBEI

The remedial classes during the academic year 2021-22 was conducted as per the following t

Sl. No.	Roll No.	Name of the student	Dates		
			10/09/2022	11/09/2022	16/09/2022
1	20MEC005TE	Mallesh N	P	P	P
2	20MEC014K	Hamsaveni M	P	P	P
3	20MEC003K	Harsha kumar	P	P	P
4	20MEC006K	Manikanta R	P	P	P
5	20MEC010K	Harshith S	P	P	P

The details of the activities conducted is as follows:

S No	Date	Total Students	presentees	Absentees	Activity
1	10/09/2022	5	5	nil	Revised the
2	11/09/2022	5	5	nil	Revised the
3	16/09/2022	5	5	nil	Solved the
4	17/09/2022	5	5	nil	Solved the

SUBJECT: ELECTRONICS VII

The remedial classes during the academic year 2021-22 was conducted as per the following t

Sl. No.	Roll No.	Name of the student	Dates		
			16-09-2022	17-09-2022	
1	19MEC008TA	Manoj Kumar	P	P	
2	19MEC010K	Punitha	P	P	
3	19MEC014H	Sanjay Singh	P	P	
4	19MEC017K	Sounder.R	P	P	
5	19MEC019K	Sujin Paul	P	P	
6	19MEC020K	Sumiksha	P	P	
7	19MEC022K	Yogasathish.S	P	P	
8	19MEC024K	Rashmi	P	P	

The details of the activities conducted is as follows:

S No	Date	Total Students	presentees	Absentees	Activity
1	16-09-2022	8	8	0	Solved
2	17-09-2022	8	8	0	Revised

HEAD
Department of Science
St. Francis de Sales College
Bengaluru - 560 100.

ST FRANCIS DE SALES COLLEGE

ELECTRONICS CITY, BENGALURU - 560 100

Class : M.Sc

Section : Remedial Remedial

Month & Year : Sep 2022

Subject : Maths - VII

ATTENDANCE REGISTER

No.	Roll No.	Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	No. of days present	No. of days present	Remarks
			16	17																																
1.	19MEC001K	AMRUTHA. K																																		
2.	19MEC002T	ASHOK KUMAR. B																																		
3.	19MEC003K	CHAITHRA. R								o																										
4.	19MEC004K	HARSHITHA. K																																		
5	19MEC005K	HITESH. R	1	2																																
6	19MEC007K	KALAVATHI. S																																		
7	19MEC008T	MANOJ KUMAR. G	1	2																																
8	19MEC009K	NAVYA. G																																		
9	19MEC010K	PUNITHA. R	1	2																																
10	19MEC011K	ROJA. E																																		
11	19MEC012K	SANDHYA. V	1	2																																
12	19MEC014H	SANTHY SINGH	0	1																																
13	19MEC015K	SHASHI KIRAN																																		
14	19MEC016K	SONIYA. V																																		
15	19MEC017K	SOUNDAR. R	1	2																																
16	19MEC018K	SUJIN PAUL. S	1	2																																
17	19MEC020K	SUMIKSHA. S	1	2																																
18	19MEC021K	VANDANA. V																																		
19	19MEC022K	YOGA SATHISH. S	0	1																																
20	19MEC023H	LIBIN S																																		
21	19MEC024K	RASHMI	0	1	1																															

Number present 1
Daily 1

HEAD
Department of Science
St. Francis de Sales College
Bengaluru - 560 100.

ST FRANCIS DE SALES COLLEGE

ELECTRONICS CITY, BENGALURU - 560 100

Class : PCM Month & Year : Sept 2022

Section : Remedial Subject : Maths VII

ATTENDANCE REGISTER

No.	Roll No.	Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	No. of days present	Remarks
			Sat		Sat																														
			17	17																															
1.	19PCM003K	ARUN M	1	2																															
2.	19PCM004E	ASHISH ROBIN BARA	1	2																															
3.	19PCM005K	AUXILIYA. J. P																																	
4.	19PCM007H	BHAVANA RATU RATHOD																																	
5.	19PCM009K	CHANDANA. B S	1	2																															
6.	19PCM010K	Deepthi. V																																	
7.	19PCM011K	DEVI. P	1	2																															
8.	19PCM012K	JACKWIN. T	0	1																															
9.	19PCM013K	JHANVI. S																																	
10.	19PCM014K	JYOTHI. G. P																																	
11.	19PCM015E	JYOTHI SINGH																																	
12.	19PCM017K	M DONDAIAH	1	2																															
13.	19PCM018E	MALLIKARJUN. K	1	2																															
14.	19PCM019K	MONISHA S																																	
15.	19PCM020K	SAGAR B NALATAWAD																																	
16.	19PCM021K	SANDEEP KURALI																																	
17.	19PCM022K	SANTHOSHA	1	2																															
18.	19PCM024K	SWATHI L																																	
19.	19PCM025K	V THARUN	1	2																															
20.	19PCM028T	VELU S	1	2																															
21.	19PCM029K	POOJASHREE N																																	
22.	19PCM030H	SHALINI S SANGWAN																																	
23.	19PCM032E	RIMI SARKAR																																	
24.	19PCM034E	KUNAL THAKUR																																	
25.	19PCM036K	CHAYASHREE K	1	2																															
26.	19PCM037G	RINGKU MUSHAHARY	0	1																															
27.	19PCM038K	VARUN H D																																	

Number present I
Daily I

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St Francis de Sales College

ST FRANCIS DE SALES COLLEGE

ELECTRONICS CITY, BENGALURU - 560 100

Class : I B.Sc

Section : A

Month & Year : ptember-2022

Subject : Mathematics (Remedial)

ATTENDANCE REGISTER

No.	Roll No.	Name	22/9	23/9	24/9	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	No. of days present	Remarks
1	21MC001K	B.G. BHARATH	1	2	3																														
2	21MC002K	KEERTHANA.M																																	
3	21MC004K	SANKALPA.R	1	2	3																														
4	21MC005H	S.SUSHANTH																																	
5	21CSM006H	JOSWIN DSOUZA																																	
6	21CSM007K	SAI CHANDRA KIRAN	1	2	3																														
7	21CSM008K	SWAPNA.V																																	
8	21CSM009H	YELLANKI DIVYA	1	2	3																														
9	21PM010K	LAVANYA.N	1	2	3																														
		Number present / Daily	5	5	5																														

HEAD
Department of Science
St. Francis de Sales College
Bengaluru - 560 100.

23/09/2022

Remedial class

Even Semester 2021-22

Mathematics II

Sl. No.	Name of the student	No. of hours attended	Signature of the student
1.	Sankalpa R	4hrs	
2.	B. G. Bharath	4hr	

HEAD
Department of Science
St. Francis de Sales College
Bengaluru - 560 100.

Chemistry

Ashwini

① Derive Schrodinger wave Equation?

② Difference real gas & Ideal gases?

③ State the postulates of Quantum mechanics?

Answer

④ *The Physical state of the system of time (t) is described as wave function $\psi(x,t)$.

* The wave function $\psi(x,t)$ at 1st & 2nd derivatives

$\frac{\partial \psi(x,t)}{\partial}$ — Learn this.

* the allowed values of observable (A) are the Eigen value of a_i.

* the wave function is observable from & from the relation of $\langle A \rangle = \bar{A}$ and ψ is assumed values.

* $\hat{A}\psi = a_i\psi_i$ is known as Eigen values.

* the wave function ($\psi x,t$) is the function Equation.

* the average value (A) is observed from the relation $\langle A \rangle = \bar{A}$ and ψ is assumed to be normalised.

(3). Ideal gas.

→ It obeys the Boy's law, charle's law and Avogadro's law at all tempera-ture & pressure.

→ volume occupied molecules is negligible.

→ The force of attraction blw the molecules.

real gas.

→ It tends the obeys of gas law from low pressure & high temperature.

→ it does not negligible

→ Attractive force blw the gas molecules.

(4). Consider the electron in an atom and its total energy ϵ is given as.

$$E = T + V = \frac{1}{2}mv^2 + V = \frac{p^2}{2m} + V$$

$$E = \frac{p_x^2 + p_y^2 + p_z^2}{2m} + V \quad - (1).$$

$$p_x = \frac{h}{2\pi i}\frac{\partial}{\partial x} \quad p_y = \frac{h}{2\pi i}\frac{\partial}{\partial y} \quad p_z = \frac{h}{2\pi i}\frac{\partial}{\partial z}$$

PV diagram for the same change in pressure and volume. Explain.

$$\frac{1}{2m}\left[\frac{h}{2\pi i}\frac{\partial}{\partial x}\right]^2 + \left[\frac{h}{2\pi i}\frac{\partial}{\partial y}\right]^2 + \left[\frac{h}{2\pi i}\frac{\partial}{\partial z}\right]^2 + V$$

$$\frac{h^2}{8\pi i}\left[\frac{h}{2\pi i}\frac{\partial^2}{\partial x^2}\right] + \left[\frac{h}{2\pi i}\frac{\partial^2}{\partial y^2}\right] + \left[\frac{h}{2\pi i}\frac{\partial^2}{\partial y^2}\right] + V \quad - (2)$$

$$\frac{h^2}{8\pi i} + \bar{V}^2 + V \quad - (8).$$

According to quantum mechanics.

$$\hat{H}\psi + = E\psi \quad - (9).$$

$$= \frac{h^2}{8\pi i} + (\bar{V}^2 + V)\psi = E\psi$$

$$= \frac{\bar{V}^2}{E} + \frac{8\pi i}{h^2} = [E\psi - V] = 0$$

$$= \bar{V}^2\psi + \frac{8\pi i}{h^2} = (E - V) = 0$$

* Physical state of on system of time t is described by the wave function $\psi(x,t)$.

* the wave function (x,t) are 1st & 2nd derivatives $\frac{\partial \psi(x,t)}{\partial x} = \frac{\partial^2 \psi(x,t)}{\partial x^2}$ are continous finite and Singal valued.

normalised $\int_{-\infty}^{\infty} \psi(x,t) \cdot \psi^*(x,t) = 1$

* to every observable quantity in classical mechanics there corresponds a linear $(\hat{A})$.

$$\int \psi_j^* \hat{A} \psi_i \, dx = \int \psi_i^* \hat{A} \psi_j \, dx .$$

* the allowed values of an observable (A) are Eigen value 'ai'

$[\hat{A}\psi = a_i \psi_i]$ also known as Eigen values equation $[\psi_i]$ is Eigen function.

* the average value (A) is observed from the relation $\langle A \rangle = \bar{A} = \int \psi^* \hat{A} \psi \, dx$ where ψ is assumed to be normalised

* the wave function $[\psi x t]$ is the function of Equation.

$$\hat{A}\psi(x,t) = \hbar \left[\frac{\partial \psi(x,t)}{\partial x} \right]$$

Ruchitha T

1) Derive Schrodinger wave Equation?
2) D/w Ideal gas and Real gas?
3) State the postulates of Quantum Mechanics?

→ Answers

3) * The physical state of an atom time t is described as $\psi(x,t)$

* The wave function $\psi(x,t)$, and the 1st and 2nd derivatives as ~~$\frac{\partial \psi(x,t)}{\partial x}$~~, ~~$\partial$~~

$\frac{\partial \psi(x,t)}{\partial x}$, $\frac{\partial^2 \psi(x,t)}{\partial x^2}$ where as its singal.

and normalised at $\int_{-\infty}^{\infty} \partial \psi(x,t)$, $\partial \psi(x,t) - 1$.

* The derived value of A is an observable and ai is an Eigen value.

~~$[A\psi, A\psi_i]$~~. $[A\psi, a_i \psi]$

* The value of A is an observable and can be obtained as $[\hat{A}\psi, A\psi_i]$ as ai is an Eigen value.

* The wave function of an Equation.

Repeat

*

2) Ideal gas

* A Gas which obeys all Boyle's law, charles law, avagadro's law at temperature and pressure.
* Volume occupied by the Ideal gas is negligible.
* No Intermolecular force of attraction.

Real gas.

* A gas which obey's Gas at Decrease pressure and Increase temperature.
* Volume occupied by the Real gas is not negligible.
* Attractive force between the gas molecules.

3) Consider an Electron in an atom. the total Energy of E is given by.

$$E = T + V = \frac{1}{2}mv^2 + V = \frac{p^2}{2m} + V.$$

$$E = \frac{P_x^2 + P_y^2 + P_z^2}{2m}$$

$$P_x = \frac{h}{2\pi i}\frac{\partial}{\partial x}, \quad P_y = \frac{h}{2\pi i}\frac{\partial}{\partial y}, \quad P_z = \frac{h}{2\pi i}\frac{\partial}{\partial z}.$$

$$\hat{H} = \frac{h}{2m}\left\{\left(\frac{h}{2\pi i}\frac{\partial}{\partial x}\right)^2 + \left(\frac{h}{2\pi i}\frac{\partial}{\partial y}\right)^2 + \left(\frac{h}{2\pi i}\frac{\partial}{\partial z}\right)^2 \right. \quad -(2)$$

$$\hat{H} = \frac{-h^2}{8\pi m}\left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} + \frac{\partial^2}{\partial z^2}\right) + V$$

$$\hat{H} = \frac{-h^2}{8\pi m}\nabla^2 + V \quad -(3)$$

According to Quantum Mechanics.

$$\hat{H}\psi - E\psi = 0. \quad -(4)$$

$$= \frac{-h^2}{8\pi m}\nabla^2 + V\psi - E\psi = 0$$

$$\nabla^2\psi + \frac{8\pi m}{h^2}(E - V) = 0.$$

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3> * The physical state of an time t is described as $\psi(x,t)$

* The wave function $\psi(x,t)$ at the 1st and 2nd derivatives are $\frac{\partial \psi(x,t)}{\partial x}$, $\frac{\partial^2 \psi(x,t)}{\partial x^2}$ are regular, continuous and ~~two~~ normalised $\int_{-\infty}^{\infty} \psi(x,t)$, $\psi^*(x,t) = 1$.

* To Every observable quantity of classical mechanics, the corresponding linear 'A' is Hermitian operator in Quantum Mechanics.

* The allowed values of the observable 'A' are the Eigen value 'ai'

$[A\psi, ai\psi]$

* The Average value of A is obtained ~~as~~ from the ~~[A ψ, ai ψ]~~ relation $\langle A \rangle = \bar{A} \Rightarrow \int_{-\infty}^{\infty} \psi^* \hat{A} \psi dx$.

where ψ is assumed to be normalised.

* The wave function (ψ_{xt}) is the function of Equation.

$$\hat{H}\psi(x,t) = \hbar \left[\frac{\partial \psi[x,t]}{\partial x} \right]$$

Derive Schrodinger wave Eqn. Sankalpa. P.

-> Consider an $e^{\ominus}$ in an atom of total energy is described by: $E = T + V = \frac{1}{2} mv^2 = \frac{p^2}{2m} + V$.

$$E = \frac{P_{xi}^2}{2m} + \frac{P_{yi}^2}{2m} + \frac{P_{zi}}{2m} + V$$

$P_x = \partial x \cdot \frac{h\pi i}{2m}$ $P_y = \partial y \cdot \frac{h\pi i}{2m}$ $\partial z \cdot \frac{h\pi i}{2m}$.

$$E = \frac{1}{2} \left[\left(\partial x \cdot \frac{h\pi i}{2m\pi} \right)^2 + \left(\partial y \cdot \frac{h\pi i}{2m\pi} \right)^2 + \left(\partial z \cdot \frac{h\pi i}{2m\pi} \right)^2 \right] + V$$

$$E = \frac{h\pi^2}{8m\pi^2} + V$$

$$\hat{H}\psi = E\psi.$$

$$\hat{H} = -\frac{h}{8m\pi^2} + V.$$

$$= -\frac{h}{8m\pi^2} \psi + V.$$

$$\left(-\frac{h\nabla^2}{8m\pi^2} + V \right) = (E - 0)\psi$$

$$-\frac{h\nabla^2}{8m\pi^2} + (E - V)\psi = 0$$

2.

Ideal Gas	Real Gas
• It obeys all gas laws	It tends to obey only at low pressure & high temp.
• volume occupied by gas molecule is negligible	volume occupied by gas molecule is not negligible
• No attractive/intermolecular attraction force	attraction force b/w gas molecules are appreciable due to which pressure is less than i.e. calculated using calculator
• It is hypothetical	All gases are real gases.

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3. Postulates.

P-1: The physical state of the system at time t is described as $\psi(x,t)$.

P-2: The wavefunction (x,t) & its 1st & 2nd derivatives $\frac{\partial \psi_{x,t}}{\partial x}$, $\frac{\partial^2 \psi_{(x,t)}}{\partial x^2}$ are continuous finite & single.

It is normalized. $\int \psi_{(x,t)} \cdot \psi^*_{(x,t)} = 1$.

P-3: All observable of classical mechanics are corresponds to linear hermition operator.

P-4: The average value $\langle A \rangle$ or $\bar{A}$ are the Eigen values i.e $\hat{A}_i = a_i \psi_i$. These are know as Eigen value & ψ_i is the Eigen-function

P-5:

P-6: The quantum mechanicals ~~are~~ correspondes to the ~~classical expression~~ operators that constructs the classical expression in terms of variables & converted to operator.

P-7: The wavefunction $\psi_{x,t}$ is the Eigen function. i.e

$$\hat{H}\psi_{(x,t)} = \frac{i\hbar}{} \left(\frac{\partial \psi_{(x,t)}}{\partial x}\right).$$

Postulates:

P.1 The physical state of the system at time t is described as $\psi(x,t)$.

P.2 The ψ function & its 1st & 2nd derivatives $\frac{\partial \psi(x,t)}{\partial x}$, $\frac{\partial^2 \psi(x,t)}{\partial x^2}$ are continuous, finite & single valued. It is normalized. $\int_{-\infty}^{\infty} \psi(x,t) \cdot \psi^*(x,t) = 1$

P.3 To every observable quantity in quantum mechanics corresponds to linear hermitian operator.

P.4 The allowed observables 'A' are the Eigen values that is $\hat{A}\psi_i = a_i\psi_i$. This is known as Eigen value & ψ_i is the Eigen function.

P.5 The average value $\langle A \rangle$ or $\bar{A}$ is obtained by.
$\langle A \rangle = \bar{A} = \int_{-\infty}^{\infty} \psi^* \hat{A} \psi \, dx$. where ψ is assumed to be normalized.

P.6 The quantum mechanics is corresponds to the observable that are constructed by classical expression in terms of variables & converted to operator.

P.7 The wave function $\psi(x,t)$ in the wave eqn.
$\hat{H}\psi = i\hbar \left[\frac{\partial \psi(x,t)}{\partial x}\right]$.

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B.G. Bharath 21MCOO1K.

(1) Derive schoridenger wave equation.

$$E = T + V$$

$$= \frac{1}{2} mv^2 + V$$

$$= \frac{p^2}{2m} + V$$

$$E = \frac{p_x^2 + p_y^2 + p_z^2}{2m} + V \quad \text{---(1)}$$

$$p_x = \frac{h}{2\pi i} \frac{\partial}{\partial x}, \quad p_y = \frac{h}{2\pi i} \frac{\partial}{\partial y}, \quad p_z = \frac{h}{2\pi i} \frac{\partial}{\partial z}.$$

and $V \rightarrow V$

$$\hat{H} = \frac{1}{2m} \left\{ \left(\frac{h}{2\pi i} \frac{\partial}{\partial x}\right)^2 + \left(\frac{h}{2\pi i} \frac{\partial}{\partial y}\right)^2 + \left(\frac{h}{2\pi i} \frac{\partial}{\partial z}\right)^2 \right\} + V$$

$$= \frac{h^2}{8\pi^2 m} \left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} + \frac{\partial^2}{\partial z^2} \right) + V. \quad \text{---(2)}$$

or

$$\hat{H} = \frac{-h^2}{8\pi^2 m} \nabla^2 + V. \quad \text{---(3)}$$

According to Quantum Postulate

$$\hat{H}\psi = E\psi \quad \text{---(4)}$$

$$\left(\frac{-h^2}{8\pi^2 m} \nabla^2 + V \right) \psi = E\psi.$$

$$\nabla^2 \psi + \frac{8\pi^2 m}{h^2} (E - V) \psi = 0 \; //$$

② Differentiate real and ideal gases.

Real gas	ideal gas
⊛ gases have volume	⊛ gas have no volume
⊛ intermolecular forces b/w particles	⊛ no inter molecular forces b/w particles.
⊛ not hypothetical	⊛ it is hypothetical.
⊛ Volume occupied by gas molecules is not neligible	⊛ Volume occupied by gas molecule is neligible.

③ State postulate of Quantum mech^{t}.

Consider a particle moving in one direction.

Postulate ①:- physical state of system is at time 't' is described by wave function $\psi(x,t)$

Postulate ②:- The wave function $\psi(x,t)$ and its 1st and 2nd derivatives $\frac{\partial \psi(x,t)}{\partial x}$, $\frac{\partial^2 \psi(x,t)}{\partial x^2}$ is continous finite and single value is normalised.

Postulate ③:-

The every observable Quantity in classical mech^{t}, The corresponding linear Hermition Operator ($\hat{A}$) in Quantum mech^{t}.

Postulate (4) :- The allowed value of an observable is Eigen value a_i.

ie, $\hat{A}\psi_i = a_i\psi_i$

Postulate (5) :-

The average value ($\langle A \rangle$) is obtained from relation $\langle A \rangle = \bar{A} = \int_{-\infty}^{\infty} \psi^* \hat{A} \psi$.

When ψ is assumed to be normalised.

Postulate (6) :-

The wave function $\psi(x,t)$ is a function of equation $\hat{H}\psi(x,t) = f\left[\frac{\partial \psi(x,t)}{\partial x}\right]$