Savitribai Phule Pune University
Faculty of Science & Technology

Revised Structure

For

First Year
Bachelor of Engineering
(Choice Based Credit System)

(2019 Course)

(With Effect from Academic Year 2019-20)

TABLE -1 First Engineering _Structure for Semester-I														
Course Code	**Course Name**	**Teaching Scheme (Hours/Week)**			**Examination Scheme and Marks**						**Credits**			
		Theory	**Practical**	**Tutorial**	**ISE**	**ESE**	**TW**	**PR**	**OR**	**Total**	**TH**	**PR**	**TUT**	**Total**
107001	Engineering Mathematics-I	03	--	01	30	70	25	--	--	125	03	--	01	04
107002/ 107009	Engineering Physics / Engineering Chemistry	04	02	--	30	70	--	25	--	125	04	01	--	05
102003	Systems in Mechanical Engineering	03	02	--	30	70	--	25	--	125	03	01	--	04
103004 / 104010	Basic Electrical Engineering / Basic Electronics Engineering	03	02	--	30	70	--	25	--	125	03	01	--	04
110005/ 101011	Programming and Problem Solving / Engineering Mechanics	03	02	--	30	70	--	25	--	125	03	01	--	04
111006	Workshop[@]	--	02	--	--	--	--	25	--	25	--	01	--	01
	Total	16	10	01	150	350	25	125	--	650	16	05	01	22
101007	Audit Course 1[&]	02	Environmental Studies-I											

Induction Program : 2 weeks at the beginning of semester-I and 1 week at the beginning of semester-II

TABLE -2 First Engineering_ Structure for Semester-II														
Course Code	**Course Name**	**Teaching Scheme (Hours/Week)**			**Examination Scheme and Marks**						**Credits**			
		Theory	**Practical**	**Tutorial**	**ISE**	**ESE**	**TW**	**PR**	**OR**	**Total**	**TH**	**PR**	**TUT**	**Total**
107008	Engineering Mathematics-II	04	--	01	30	70	25	--	--	125	04	--	01	05
107002/ 107009	Engineering Physics/ Engineering Chemistry	04	02	--	30	70	--	25	--	125	04	01	--	05
103004 / 104010	Basic Electrical Engineering / Basic Electronics Engineering	03	02	--	30	70	--	25	--	125	03	01	--	04
110005/ 101011	Programming and Problem Solving / Engineering Mechanics	03	02	--	30	70	--	25	--	125	03	01	--	04
102012	Engineering Graphics [Ω]	01	02	01	--	50	25		--	75	01	01		02
110013	Project Based Learning[§]	--	04	--	--	--	25	50	--	75	--	02	--	02
	Total	15	12	02	120	330	75	125	--	650	15	05	02	22
101014	Audit Course 2[&]	02	Environmental Studies-II											
107015		--	Physical Education-Exercise and Field Activities											

Instructions:

- PR/Tutorial must be conducted in three batches per division.
- Minimum number of required Experiments/Assignments in PR/ Tutorial shall be carried out as mentioned in the syllabi of respective subjects.
- Every Student should appear for Engineering Physics, Engineering Chemistry, Engineering Mechanics, Basic Electrical Engineering, Basic Electronics Engineering, Programming and Problem solving during the year.
- College is allowed to distribute Teaching workload of subjects Engineering Physics, Engineering Chemistry, Basic Electrical Engineering, Basic Electronics Engineering, Engineering Mechanics, Programming and Problem solving in semester I and II dividing number of FE divisions into two appropriate groups.
- Assessment of tutorial work has to be carried out as term-work examination. Term-work Examination and Practical Examination at first year of engineering course **shall be internal continuous assessment only.**

Ω 1 Credit for Engineering Graphics theory has to be awarded on the basis of End semester examination of 50 marks while 1 credit of tutorial and practical **shall be awarded on internal continuous assessment only**.

@ Credit for the course of workshop practical is to be awarded on the basis of continuous assessment / submission of job work.

§ Project based learning (PBL) requires continuous mentoring by faculty throughout the semester for successful completion of the tasks selected by the students per batch. While assigning the teaching workload a load of 2 Hrs/week/batch needs to be considered for the faculty involved. The Batch needs to be divided into sub-groups of 5 to 6 students. Assignments / activities / models/ projects etc. under project based learning is carried throughout semester and Credit for PBL has to be awarded on the basis of internal continuous assessment and evaluation at the end of semester.

& Audit course for Environmental Studies and II (As per D.O.No.F.13-1/2000 (EA/ENV/COS-I) dated 14 May, 2019) is mandatory but non-credit course. Examination has to be conducted at the end of Sem I & II respectively for award of grade at college level. Grade awarded for audit course shall not be calculated for grade point &CGPA.

Audit course for Physical education is mandatory non-credit course. Examination has to be conducted at the end of Semester for award of grade at college level. Grade awarded for audit course shall not be calculated for grade point &CGPA.

SIDDHANT COLLEGE OF ENGINEERING SUDUMBARE, PUNE.

Academic Calendar for First Year Engineering

AY 2022-23 SEM – I

Date:- 10/11/2022

Sr. No.	Details of Activities	Day & Dates
1	FE Induction Programme	17/11/2022 To 22/11/2022
2	Commencement of Teaching	Thursday, 23/11/2022
3	Unit test /Class Test on (unit 1 and 2)	Wednesday, 28/12/2023 To Friday, 06/01/2023.
4	Display of First (Monthly) defaulter student list on notice board.	Friday, 30/12/2023
5	SPPU In- semester Examination	Monday, 09/01/2023 to Friday, 13/01/2023 as per SPPU circular.
6	Display of Second defaulter student list on notice board.	Friday 31/01/2023
7	Unit test/ class test (on unit 3 and 4)	Tuesday,02/02/2023 to Wed, 09/02/2023
8	First Parent meet	Thursday, 16/02/2023
09	Preliminary examination	27/02/2023 To 03/03/2023
	Display of Third defaulter student list on notice board.	Friday, 10/ 03/2023
10	Term work submission and Term End	06/03/2023 To 07/03/2023
11	SPPU End semester Theory Examination	20/03/2023 To 30/03/2023(tentative date)

Note: -

1. Dates for above activities may changes depending upon list of Holidays. These will be discussed from time to time in the meeting with Principal, Academic Director, Academic Co-ordinator and Head of the Departments.
2. Slot of departmental students activities will be declared in due to course.

Prepared by:-
Prof. R. S. More

FE Coordinator
Dr. U. V. Shinde

Principal
Dr. R. L. Khandagle

First Year Co-ordinator
Siddhant College of Engineering,
Sudumbare, Tal. Daund, Dist. Pune - 412 109.

Copy to:-

1. Executive Director CAYMET
2. Finance Director CAYMET
3. All Co-ordinators and HOD's
4. CEO
5. Librarian
6. Student Section
7. Establishment section

College of Engineering

SIDDHANT COLLEGE OF ENGINEERING SUDUMBARE, PUNE.

Academic Calendar for First Year Engineering Dept.

AY 2022-23 SEM – II

Date:- 31/03/2023

Sr. No.	Details of Activities	Day & Dates
1	Commencement of Teaching	Monday, 10/04/2023
2	Technical Event	Monday,24/04/2023 To Tuesday, 25/04/ 2023
3	Sport	Wednesday, 26/04/2023 To Friday, 28/04/2023
4	Cultural Event	Saturday, 29/04/2023
5	Display of First (Monthly) defaulter student list on notice board.	Monday, 01/05/2023
6	Unit test /Class Test-I on (unit 1 and 2)	Monday,8/05/2023 to Friday, 12/05/2023
7	SPPU In-semester Examination	Monday, 15/05/2023 To Friday,19/05/2023
8	Display of Second (Month) defaulter student list on notice board.	Wednesday, 31/05/2023
9	Unit test /Class Test-II on (unit 3 and 4)	Wednesday, 28/05/2023 To Friday, 07/06/2023.
10	Parents meet	Thursday, 15/06/2023
11	Guest lectures (Subject Experts)	Monday,26/06/2023 To Friday ,30/06/2023
12	Display of Third (Month) defaulter student list on notice board.	Friday 31/06/2023
13	Preliminary examination	Monday,17/07/2023 To Friday, 21/07/2023
14	Students Feedback	Friday, 21/07/2023
15	Remedial Classes	Monday,17/07/2023 To Friday, 21/07/2023
16	Display of Final defaulter student list on notice board.	Thursday, 20/07/2023
17	Term work submission and Term End	Friday, 21/07/2023 To Monday, 24/07/2023
18	SPPU End semester Theory Examination	Tuesday, 01/08/2023 To Thursday, 10/08/2023 (tentative date)

Note: -

1. Dates for above activities may changes depending upon list of Holidays. These will be discussed from time to time in the meeting with Principal, Academic Director, Academic Co-ordinator and Head of the Departments.
2. Slot of departmental students activities will be declared in due to course.

Prepared by:-
Prof. R. S. More

FE Coordinator
Dr. C. V. Shinde

Principal
Dr. L. V. Kamble

Principal
Siddhant College of Engineering
Sudumbare,Pune - 412 109

Copy to:-

1. All Co-ordinators and HOD's
2. CEO
3. Librarian

CAYMET's

SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

MASTER TIME-TABLE

SEM I | A.Y:-2022-23 | WITH EFFECT FROM : 16/01/2023

DAY / TIME	MONDAY				TUESDAY				WEDNESDAY				THURSDAY				FRIDAY			
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
8:45 - 9:45	EM	CHEM	BLX	PPS	M-I	BEE	C1 PPS C2SME C3 WS	PHY	SME	EM	PHY	D1 BLX D2 PPS D3 SME	BEE	M-I	BLX	D1 PPS D2 SME D3 WS	EM	M-I	PHY	BLX
9:45 - 10:45	EVS	SME	PHY	SME	SME	CHEM		BLX	M-I	BEE	M-I		CHEM	EM	PHY		CHEM	SME	M-I	PPS
10:45 - 11:00	S		H		O		R		T		B		R		E		A		K	
11:00- 12:00	CHEM	B1 BEE B2 EM B3 WS	C1 BLX C2 PPS C3 SME	M-I	A1 CHEM A2 BEE A3 EM	M-I	SME	D1 PHY D2 BLX D3 PPS	EM	B1 WS B2 SME B3 CHEM	SME	PHY	A1 EM A2 WS A3 SME	BEE	SME	PPS	M-I	B1 CHEM B2 BEE B3 EM	BLX	D1 SME D2 WS D3 PHY
12:00- 01:00	SME			PHY		SME	M-I		BEE		PPS	M-I		CHEM	EVS	BLX	SME		M-I	
1:00 - 1:30	L		U		N		C		H		B		R		E		A		K	
1:30 - 2:30	M-I	LIB. Hr.	SME	M-I	M-I	CHEM	PHY	SME	CHEM	M-I	M-I	LIB. Hr.	LIB. Hr	M-I	PPS	PHY	BEE	EVS	LIB. Hr.	SME
2:30-3:30	A1 SME A2 CHEM A3 BEE	EM	PPS	D1 WS D2 PHY D3 BLX	BEE	B1 EM B2 WS B3 SME	BLX	M-I	A1 BEE A2 EM A3 WS	SME	C1 SME C2 WS C3 PHY	PPS	EM	B1 SME B2 CHEM B3 BEE	C1 WS C2 PHY C3 BLX	M-I	A1 WS A2 SME A3 CHEM	EM	C1 PHY C2 BLX C3 PPS	EVS
3:30-4:30		M-I	M-I		CHEM		PPS	PHY		CHEM		BLX	M-I			SME		BEE		M-I

Time Table In-charge
PROF.R.S.MORE

HOD
DR.U.V.SHINDE

Principal
DR.L.V.KAMBLE

Shinde U. V.
First Year Co-ordinator
Siddhant College of Engineering,
Sudumbare, Tal Maval, Pune - 412 109.

Principal
Siddhant College of Engineering
Sudumbare, Maval, Pune - 412 109

LOAD DISTRIBUTION

CLASS	ROOM NO	CLASS COORDINATOR	SIGN
A	A-12	Prof. R.S. More	
B	A-11	Prof. Sonali V. Ghuge	
C	A-10	Prof. Ashwini Bhosale	
D	A-13	Prof. Avinash Tekale	

FACULTY INITIALS	NAME OF FACULTY	SUBJECT NAME	SUBJECT INITIALS	TH	PR(TU)	DEPT. WORK LOAD	TOTAL	SIGN
UVS	Dr. Uttam V. Shinde	ENGINEERING CHEMISTRY	CHEM	10	12		22	
BBK	Prof. Bhagwat B. Kedar	SYSTEMS IN MECHANICAL ENGINEERING (C&D)	SME	8	0	19	27	
BDG	Prof. B.D.Garje	SYSTEMS IN MECHANICAL ENGINEERING (C&D)	SME	0	12	13	25	
RSM	Prof. R.S. More	SYSTEMS IN MECHANICAL ENGINEERING (A&B)	SME	8	12		20	
SVG	Prof. Sonali V. Ghuge	BASIC ELECTRICAL ENGINEERING	BEE	8	12		20	
DAK	Prof. Deepak Kute	ENGINEERING PHYSICS	PHY	10	12		22	
APT	Prof. Avinash Tekale	ENGINEERING MATHEMATICS I (C&D)	M-I	10	2	8	20	
SMC	Prof. Shilpa Charaple	ENGINEERING MATHEMATICS I (A&B)	M-I	10	2		12	
AKB	Prof. Ashwini Bhosale	PROGRAMMING AND PROBLEM SOLVING	PPS	8	12		20	
DAP	Prof. Deepali Bajare	BASIC ELECTRONICS ENGINEERING	BLX	8	12		20	
PAP	Prof. Pooja Patil	ENGINEERING MECHANICS	EM	8	12		20	
PK	Prof. Prashant Kumar	ENVIRONMENTAL STUDIES-I	EvS	4	0	16	20	

Time Table In-charge
PROF.R.S.MORE

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SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

TIME-TABLE

SEM I (A.Y.2022-23) **DIVISION - A** WITH EFFECT FROM : 16/01/2023

DAY / TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:45 - 9:45	EM	M-I	SME	BEE	EM
9:45 - 10:45	EVS	SME	M-I	CHEM	CHEM
10:45 - 11:00	SHORT BREAK				
11:00- 12:00	CHEM	A1- CHEM A2- BEE A3- EM	EM	A1- EM A2- WS A3- SME	M-I
12:00- 01:00	SME		BEE		SME
1:00 - 1:30	LUNCH BREAK				
1:30 - 2:30	M-I	M-I	CHEM	EVS	BEE
2:30-3:30	A1-SME A2-CHEM A3-BEE	BEE	A1-BEE A2-EM A3-WS	EM	A1 -WS A2-SME A3-CHEM
3:30-4:30		CHEM		M-I	

Time Table In-charge
PROF.R.S.MORE

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SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

TIME-TABLE

SEM I (A.Y.2022-23)

DIVISION - B

WITH EFFECT FROM : 16/01/2023

DAY / TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:45 - 9:45	CHEM	BEE	EM	M-I	M-I
9:45 - 10:45	SME	CHEM	BEE	EM	SME
10:45 - 11:00	SHORT BREAK				
11:00- 12:00	B1- BEE B2- EM B3- WS	M-I	B1- WS B2- SME B3- CHEM	BEE	B1- CHEM B2- BEE B3- EM
12:00- 01:00		SME		CHEM	
1:00 - 1:30	LUNCH BREAK				
1:30 - 2:30	EVS	CHEM	M-I	M-I	EVS
2:30-3:30	EM	B1- EM B2- WS B3- SME	SME	B1- SME B2- CHEM B3- BEE	EM
3:30-4:30	M-I		CHEM		BEE

Time Table In-charge
PROF.R.S.MORE

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SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

TIME-TABLE

DIVISION - C

SEM I (A.Y.2022-23) WITH EFFECT FROM : 16/01/2023

DAY / TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:45 - 9:45	BLX	C1 -PPS C2-SME C3- WS	PHY	BLX	PHY
9:45 - 10:45	PHY		M-I	PHY	M-I
10:45 - 11:00	SHORT BREAK				
11:00- 12:00	C1 -BLX C2- PPS C3- SME	SME	SME	SME	BLX
12:00- 01:00		M-I	PPS	EVS	M-I
1:00 - 1:30	LUNCH BREAK				
1:30 - 2:30	SME	PHY	M-I	PPS	EVS
2:30-3:30	PPS	BLX	C1 -SME C2- WS C3 -PHY	C1- WS C2- PHY C3- BLX	C1 -PHY C2- BLX C3 -PPS
3:30-4:30	M-I	PPS			

Siddhant College of Engineering SEAL Sudumbare, Pune

9.1.23

Time Table In-charge
PROF.R.S.MORE

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SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

TIME-TABLE

DIVISION - D

SEM I (A.Y.2022-23) WITH EFFECT FROM : 16/01/2023

DAY / TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:45 - 9:45	PPS	PHY	D1 -BLX D2- PPS D3- SME	D1 -PPS D2 -SME D3- WS	BLX
9:45 - 10:45	SME	BLX			PPS
10:45 - 11:00	SHORT BREAK				
11:00- 12:00	M-I	D1- PHY D2 - BLX D3- PPS	PHY	PPS	D1 -SME D2- WS D3 -PHY
12:00- 01:00	PHY		M-I	BLX	
1:00 - 1:30	LUNCH BREAK				
1:30 - 2:30	M-I	SME	EVS	PHY	SME
2:30-3:30	D1 -WS D2- PHY D3 -BLX	M-I	PPS	M-I	EVS
3:30-4:30		PHY	BLX	SME	M-I

SEAL

Time Table In-charge
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SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE, PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

MASTER TIME-TABLE

SEM II | A.Y:-2022-23 | WITH EFFECT FROM : 25/06/2023

DAY / TIME	MONDAY				TUESDAY				WEDNESDAY				THURSDAY				FRIDAY			
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
08:45 - 09:45	EGR	BLX	CHEM	M-II	M-II	PPS	BEE	EGR	PHY	EGR	EM	CHEM	BLX	M-II	M-II	BEE	PPS	BLX	EGR	M-II
09:45 - 10:45	M-II	PPS	BEE	EGR	BLX	PHY	M-II	EM	M-II	BLX	BEE	M-II	PPS	EGR	EGR	CHEM	PHY	M-II	EM	BEE
10:45 - 11:00	S		H		O		R		T		B		R		E		A		K	
11:00 - 12:00	PHY	EGR	EM	CHEM	EGR	BLX	CHEM	M-II	EGR	PPS	CHEM	EGR	PHY	BLX	EM	M-II	EGR	PPS	CHEM	EGR
12:00 - 01:00	PPS	M-II	EGR	BEE	PHY	M-II	EM	BEE	BLX	PHY	M-II	EM	M-II	PPS	BEE	EGR	BLX	PHY	M-II	EM
01:00 - 01:30	L		U		N		C		H		B		R		E		A		K	
01:30 - 02:30	BLX	PHY	M-II	EM	PPS	EGR	EGR	CHEM	PPS	M-II	EGR	BEE	EGR	PHY	CHEM	EM	M-II	EGR	BEE	CHEM
	REMEDIAL CLASSES																			
02:30 - 03:30 / 03:30 - 04:30	EGR	PPS	CHEM	EGR	M-II	PHY	BEE	EM	BLX	EGR	M-II	CHEM	PPS	M-II	EGR	BEE	PHY	BLX	EM	M-II

Time-Table In-charge
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DEPARTMENT OF FIRST YEAR ENGINEERING

LOAD DISTRIBUTION

FACULTY INITIALS	NAME OF FACULTY	SUBJECT NAME	SUBJECT INITIALS	TH+TU	REM			TOTAL	SIGN
UVS	Dr. Uttam V. Shinde	ENGINEERING CHEMISTRY (C)	CHEM	5	2			7	
NSK	Prof. Nanda Kulkarni	BASIC ELECTRICAL ENGINEERING	BEE	10	4			14	
BBK	Prof. Bhagwat B. Kedar	ENGINEERING GRAPHICS (A&B)	EGR	10	4			14	
RSM	Prof. R .S. More	ENGINEERING GRAPHICS (C&D)	EGR	10	4			14	
APT	Prof. Avinash Tekale	ENGINEERING MATHEMATICS II (A&B)	M -II	10	4			14	
DAK	Prof. Deepak Kute	ENGINEERING PHYSICS	PHY	10	4			14	
PAP	Prof. Pooja Patil	ENGINEERING MECHANICS	EM	10	4			14	
DAB	Prof. Deepali Bajare	BASIC ELECTRONICS ENGINEERING	BLX	10	4			14	
HDD	Prof. Harshada Dabhade	ENGINEERING CHEMISTRY (D)	CHEM	5	2			7	
DGC	Prof. Dhanashree Chaudhari	PROGRAMMING AND PROBLEM SOLVING	PPS	10	4			14	
SNK	Prof. Santosh Karle	ENGINEERING MATHEMATICS II (C&D)	M -II	10	4			14	
PK	Prof. Prashant Kumar	ENVIRONMENTAL STUDIES-II	EvS - II					0	
		PROJECT BASED LEARNING	PBL						
		PHYSICAL EDUCATION	PEd						
			TOTAL	100	40	0	0	140	

Time Table In-charge
PROF.R.S.MORE

HOD
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SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE, PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

DIVISION A - TIMETABLE

SEM II | A.Y:-2022-23 | WITH EFFECT FROM : 25/06/2023

DAY / TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
08:45 - 09:45	EGR	M-II	PHY	BLX	PPS
09:45 -10:45	M-II	BLX	M-II	PPS	PHY
10:45 - 11:00	SHORT BREAK				
11:00 - 12:00	PHY	EGR	EGR	PHY	EGR
12:00 - 01:00	PPS	PHY	BLX	M-II	BLX
01:00 - 01:30	LUNCH BREAK				
01:30 - 02:30	BLX	PPS	PPS	EGR	M-II
REMEDIAL CLASSES					
02:30 -03:30	EGR	M-II	BLX	PPS	PHY
03:30 - 04:30					

INITIALS	NAME OF FACULTY	SUBJECT NAME
BBK	Prof. Bhagwat B. Kedar	ENGINEERING GRAPHICS (EGR)
APT	Prof. Avinash Tekale	ENGINEERING MATHEMATICS II (M-II)
DAK	Prof. Deepak Kute	ENGINEERING PHYSICS (PHY)
DAB	Prof. Deepali Bajare	BASIC ELECTRONICS ENGINEERING (BLX)
DGC	Prof. Dhanashree Chaudhari	PROGRAMMING AND PROBLEM SOLVING (PPS)

ClassTeacher
Prof. Deepak.A. Kute

Time Table In-charge
PROF.R.S.MORE

HOD
DR.U.V.SHINDE

Shinde U. V.
First Year Co-ordinator
Siddhant College of Engineering
Sudumbare, Tal Maval, Pune - 4

CAYMET's

SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE, PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

DIVISION B - TIMETABLE

SEM II | A.Y:-2022-23 | WITH EFFECT FROM : 25/06/2023

DAY / TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
08:45 - 09:45	BLX	PPS	EGR	M-II	BLX
09:45 -10:45	PPS	PHY	BLX	EGR	M-II
10:45 - 11:00	SHORT BREAK				
11:00 - 12:00	EGR	BLX	PPS	BLX	PPS
12:00 - 01:00	M-II	M-II	PHY	PPS	PHY
01:00 - 01:30	LUNCH BREAK				
01:30 - 02:30	PHY	EGR	M-II	PHY	EGR
REMEDIAL CLASSES					
02:30 -03:30	PPS	PHY	EGR	M-II	BLX
03:30 - 04:30					

INITIALS	NAME OF FACULTY	SUBJECT NAME
BBK	Prof. Bhagwat B. Kedar	ENGINEERING GRAPHICS (EGR)
APT	Prof. Avinash Tekale	ENGINEERING MATHEMATICS II (M-II)
DAK	Prof. Deepak Kute	ENGINEERING PHYSICS (PHY)
DAB	Prof. Deepali Bajare	BASIC ELECTRONICS ENGINEERING (BLX)
DGC	Prof. Dhanshree Chaudhari	PROGRAMMING AND PROBLEM SOLVING (PPS)

Class Teacher
Prof. Avinash Tekale

Time Table In-charge
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CAYMET's

SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE, PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

DIVISION B - TIMETABLE

SEM II | A.Y:-2022-23 | WITH EFFECT FROM : 25/06/2023

DAY / TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
08:45 - 09:45	BLX	PPS	EGR	M-II	BLX
09:45 -10:45	PPS	PHY	BLX	EGR	M-II
10:45 - 11:00	SHORT BREAK				
11:00 - 12:00	EGR	BLX	PPS	BLX	PPS
12:00 - 01:00	M-II	M-II	PHY	PPS	PHY
01:00 - 01:30	LUNCH BREAK				
01:30 - 02:30	PHY	EGR	M-II	PHY	EGR
REMEDIAL CLASSES					
02:30 -03:30	PPS	PHY	EGR	M-II	BLX
03:30 - 04:30					

INITIALS	NAME OF FACULTY	SUBJECT NAME
BBK	Prof. Bhagwat B. Kedar	ENGINEERING GRAPHICS (EGR)
APT	Prof. Avinash Tekale	ENGINEERING MATHEMATICS II (M-II)
DAK	Prof. Deepak Kute	ENGINEERING PHYSICS (PHY)
DAB	Prof. Deepali Bajare	BASIC ELECTRONICS ENGINEERING (BLX)
DGC	Prof. Dhanshree Chaudhari	PROGRAMMING AND PROBLEM SOLVING (PPS)

Class Teacher
Prof. Avinash Tekale

Time Table In-charge
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SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE, PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

DIVISION C - TIMETABLE

SEM II | A.Y:-2022-23 | WITH EFFECT FROM : 25/06/2023

DAY / TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
08:45 - 09:45	CHEM	BEE	EM	M-II	EGR
09:45 -10:45	BEE	M-II	BEE	EGR	EM
10:45 - 11:00	SHORT BREAK				
11:00 - 12:00	EM	CHEM	CHEM	EM	CHEM
12:00 - 01:00	EGR	EM	M-II	BEE	M-II
01:00 - 01:30	LUNCH BREAK				
01:30 - 02:30	M-II	EGR	EGR	CHEM	BEE
REMEDIAL CLASSES					
02:30 -03:30	CHEM	BEE	M-II	EGR	EM
03:30 - 04:30					

INITIALS	NAME OF FACULTY	SUBJECT NAME
UVS	Dr. Uttam V. Shinde	ENGINEERING CHEMISTRY (CHEM)
NSK	Prof. P.S. Futane	BASIC ELECTRICAL ENGINEERING (BEE)
RSM	Prof. R .S. More	ENGINEERING GRAPHICS (EGR)
PAP	Prof. Nilima Patil	ENGINEERING MECHANICS (EM)
SNK	Prof. Santosh Karle	ENGINEERING MATHEMATICS II (M-II)

Class Teacher
Prof. R.S. More

Time Table In-charge
PROF.R.S.MORE

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CAYMET's

SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE, PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

DIVISION D - TIMETABLE

SEM II | A.Y:-2022-23 | WITH EFFECT FROM : 25/06/2023

DAY / TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
08:45 - 09:45	M-II	EGR	CHEM	BEE	M-II
09:45 -10:45	EGR	EM	M-II	CHEM	BEE
10:45 - 11:00	SHORT BREAK				
11:00 - 12:00	CHEM	M-II	EGR	M-II	EGR
12:00 - 01:00	BEE	BEE	EM	EGR	EM
01:00 - 01:30	LUNCH BREAK				
01:30 - 02:30	EM	CHEM	BEE	EM	CHEM
REMEDIAL CLASSES					
02:30 -03:30	EGR	EM	CHEM	BEE	M-II
03:30 - 04:30					

INITIALS	NAME OF FACULTY	SUBJECT NAME
NSK	Prof. P.S. Futane	BASIC ELECTRICAL ENGINEERING (BEE)
RSM	Prof. R .S. More	ENGINEERING GRAPHICS (EGR)
PAP	Prof.Nilima Patil	ENGINEERING MECHANICS (EM)
HDD	Prof. Harshada Dabhade	ENGINEERING CHEMISTRY (CHEM)
SNK	Prof. Santosh Karle	ENGINEERING MATHEMATICS II (M-II)

Class Teacher
Prof. Harshada Dabhade

Time Table In-charge
PROF.R.S.MORE

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Siddhant College of Engineering

CAYMET's

SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE, PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

MASTER TIME-TABLE

SEM II | A.Y:-2022-23 | WITH EFFECT FROM : 10/04/2023

DAY / TIME	MONDAY				TUESDAY				WEDNESDAY				THURSDAY				FRIDAY			
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
08:45 - 09:45	BLX	PPS	EGR C1 PBL C2 CHE M C3	BEE	BLX	PHY	EGR	CHE M	PHY	EGR	CHE M	EGR	EGR	PHY	EM	BEE	PPS	M-II	BEE	EGR D1 PBL D2 CHE M D3
09:45 - 10:45	EnV II	M-II		EM	M-II	EnV II	EGR	EM	BLX	EGR	BEE	EGR	EGR	BLX	CHE M	PEd (APT)	PEd (APT)	PHY	M-II	
10:45 - 11:00	S		H		O		R		T		B		R		E		A		K	
11:00 - 12:00	BLX A1 PPS A2 EGR A3	PHY	BEE	EGR	EGR	PHY B1 BLX B2 PPS B3	CHE M	EM D1 EGR D2 PBL D3	EGR A1 PBL A2 PHY A3	PPS	CHE M C1 BEE C2 EM C3	M-II	PPS	EGR B1 PBL B2 PHY B3	EGR	CHE M D1 BEE D2 EM D3	PHY A1 BLX A2 PPS A3	EGR	EM C1 EGR C2 PBL C3	BEE
12:00 - 01:00		PHY	EM	EGR	EGR		BEE			PPS		M-II	BLX		EGR			EGR		CHE M
01:00 - 01:30	L		U		N		C		H		B		R		E		A		K	
01:30 - 02:30	M-II	BLX	CHE M	EnV II	PHY	M-II	EM	M-II	M-II	BLX	M-II	CHE M	M-II	PPS	M-II	CHE M	PHY	M-II	M-II	EM
02:30 - 03:30	PHY	PPS B1 EGR B2 PBL B3	M-II	PBL D1 CHE M D2 BEE D3	PPS A1 EGR A2 PBL A3	BLX	PBL C1 CHE M C2 BEE C3	EM (TU)	PPS	PBL B1 PHY B2 BLX B3	M-II (TU)	BEE D1 EM D2 EGR D3	PBL A1 PHY A2 BLX A3	M-II	BEE C1 EM C2 EGR C3	CHE M	M-II	BLX B1 PPS B2 EGR B3	CHE M	M-II
03:30 - 04:30	PHY		EM (TU)			PEd (HDD)		M-II (TU)	PPS		EnV II			M-II (TU)		M-II	M-II (TU)		PEd (SNK)	BEE (TU)

Time Table In-charge
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Principal
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Sudumbare,Pune - 412 109

CAYMET's

SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE, PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

LOAD DISTRIBUTION

FACULTY INITIALS	NAME OF FACULTY	SUBJECT NAME	SUBJECT INITIALS	TH+TU	PR	PBL	PEd	TOTAL	SIGN
UVS	Dr. Uttam V. Shinde	ENGINEERING CHEMISTRY (C)	CHEM	5	6	2		13	
NSK	Prof. Nanda Kulkarni	BASIC ELECTRICAL ENGINEERING	BEE	8	12	2		22	
BBK	Prof. Bhagwat B. Kedar	ENGINEERING GRAPHICS (A&B)	EGR	8	12	2		22	
RSM	Prof. R .S. More	ENGINEERING GRAPHICS (C&D)	EGR	8	12	2		22	
APT	Prof. Avinash Tekale	ENGINEERING MATHEMATICS II (A&B)	M -II	12		2	2	16	
DAK	Prof. Deepak Kute	ENGINEERING PHYSICS	PHY	10	12	2		24	
PAP	Prof. Pooja Patil	ENGINEERING MECHANICS	EM	8	12	2		22	
DAB	Prof. Deepali Bajare	BASIC ELECTRONICS ENGINEERING	BLX	8	12	2		22	
HDD	Prof. Harshada Dabhade	ENGINEERING CHEMISTRY (D)	CHEM	5	6	2	1	14	
DGC	Prof. Dhanashree Chaudhari	PROGRAMMING AND PROBLEM SOLVING	PPS	8	12	2		22	
SNK	Prof. Santosh Karle	ENGINEERING MATHEMATICS II (C&D)	M -II	12		4	1	17	
PK	Prof. Prashant Kumar	ENVIRONMENTAL STUDIES-II	EvS - II	4				4	
		PROJECT BASED LEARNING	PBL						
		PHYSICAL EDUCATION	PEd						
			TOTAL	96	96	24	4	220	

Time Table In-charge
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Sudumbare,Pune - 412 109

CAYMET's

SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE, PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

CLASS	ROLL NO	GFM	SIGN
A	101 - 130	Prof. Deepak.A. Kute - CT	
	131 - 159	Prof. Dhanshri Chaudhari	
B	201 - 230	Prof. Avinash Tekale - CT	
	231- 257	Prof. Deepali Bajare	

CLASS	ROLL NO	GFM	SIGN
C	301 - 330	Prof. R.S. More - CT	
	331 - 357	Prof. Pooja Patil	
D	401 - 430	Prof. Harshada Dabhade - CT	
	431 - 455	Prof. Santosh Karle	

* CT - CLASS TEACHER

FACULTY INITIALS	NAME OF FACULTY	PBL (BATCH)	PEd (Div)
UVS	Dr. Uttam V. Shinde	C3	
NSK	Prof. Nanda Kulkarni	D3	
BBK	Prof. Bhagwat B. Kedar	B1	
RSM	Prof. R .S. More	D1	
APT	Prof. Avinash Tekale	A2	A & D
DAK	Prof. Deepak Kute	A3	
PAP	Prof. Pooja Patil	D2	
DAB	Prof. Deepali Bajare	B3	
HDD	Prof. Harshada Dabhade	C1	B
DGC	Prof. Dhanashree Chaudhari	A1	
SNK	Prof. Santosh Karle	B2,C2	C

PR BATCH	A1	:-	101	to	120
PR BATCH	A2	:-	121	to	140
PR BATCH	A3	:-	141	to	159
PR BATCH	B1	:-	201	to	219
PR BATCH	B2	:-	220	to	238
PR BATCH	B3	:-	239	to	257
PR BATCH	C1	:-	301	to	319
PR BATCH	C2	:-	320	to	338
PR BATCH	C3	:-	339	to	357
PR BATCH	D1	:-	401	to	418
PR BATCH	D2	:-	419	to	436
PR BATCH	D3	:-	437	to	455

Time Table In-charge
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Siddhant College of Engineering SEAL

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SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE, PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

DIVISION A - TIMETABLE

SEM II | A.Y:-2022-23 | WITH EFFECT FROM : 10/04/2023

DAY / TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
08:45 - 09:45	BLX	BLX	PHY	EGR	PPS
09:45 -10:45	EnV-II	M-II	BLX	EGR	PEd (APT)
10:45 - 11:00	SHORT BREAK				
11:00 - 12:00	BLX A1 PPS A2 EGR A3	EGR	EGR A1 PBL A2 PHY A3	PPS	PHY A1 BLX A2 PPS A3
12:00 - 01:00		EGR		BLX	
01:00 - 01:30	LUNCH BREAK				
01:30 - 02:30	M-II	PHY	M-II	M-II	PHY
02:30 -03:30	PHY	PPS A1 EGR A2 PBL A3	PPS	PBL A1 PHY A2 BLX A3	M-II
03:30 - 04:30	PHY		PPS		M-II (TU)

ROLL NO.	GFM
101 - 130	Prof. Deepak.A. Kute
131 - 159	Prof. Dhanashree Chaudhari

PR BATCH A1	101 to 120
PR BATCH A2	121 to 140
PR BATCH A3	141 o 159

INITIALS	NAME OF FACULTY	SUBJECT NAME
BBK	Prof. Bhagwat B. Kedar	ENGINEERING GRAPHICS (EGR)
APT	Prof. Avinash Tekale	ENGINEERING MATHEMATICS II (M-II)
		PROJECT BASED LEARNING (PBL) PR BATCH A2
		PHYSCAL EDUCATION (PEd)
DAK	Prof. Deepak Kute	ENGINEERING PHYSICS (PHY)
		PROJECT BASED LEARNING (PBL) PR BATCH A3
DAB	Prof. Deepali Bajare	BASIC ELECTRONICS ENGINEERING (BLX)
DGC	Prof. Dhanashree Chaudhari	PROGRAMMING AND PROBLEM SOLVING (PPS)
		PROJECT BASED LEARNING (PBL) PR BATCH A1
PK	Prof. Prashant Kumar	ENVIRONMENTAL STUDIES-II (EnV-II)

Class Teacher
Prof. Deepak.A. Kute

Time Table In-charge
PROF.R.S.MORE

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DR.U.V.SHINDE

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SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE, PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

DIVISION B - TIMETABLE

SEM II | A.Y:-2022-23 | WITH EFFECT FROM : 10/04/2023

DAY / TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
08:45 - 09:45	PPS	PHY	EGR	PHY	M-II
09:45 -10:45	M-II	EnV-II	EGR	BLX	PHY
10:45 - 11:00	SHORT BREAK				
11:00 - 12:00	PHY	PHY B1 BLX B2 PPS B3	PPS	EGR B1 PBL B2 PHY B3	EGR
12:00 - 01:00	PHY		PPS		EGR
01:00 - 01:30	LUNCH BREAK				
01:30 - 02:30	BLX	M-II	BLX	PPS	M-II
02:30 -03:30	PPS B1 EGR B2 PBL B3	BLX	PBL B1 PHY B2 BLX B3	M-II	BLX B1 PPS B2 EGR B3
03:30 - 04:30		PEd (HDD)		M-II (TU)	

ROLL NO.	GFM
201 - 230	Prof. Avinash Tekale
231 - 257	Prof. Deepali Bajare

PR BATCH B1	201 to 219
PR BATCH B2	220 to 238
PR BATCH B3	239 to 257

INITIALS	NAME OF FACULTY	SUBJECT NAME
BBK	Prof. Bhagwat B. Kedar	ENGINEERING GRAPHICS (EGR)
		PROJECT BASED LEARNING (PBL) PR BATCH B1
APT	Prof. Avinash Tekale	ENGINEERING MATHEMATICS II (M-II)
DAK	Prof. Deepak Kute	ENGINEERING PHYSICS (PHY)
DAB	Prof. Deepali Bajare	BASIC ELECTRONICS ENGINEERING (BLX)
		PROJECT BASED LEARNING (PBL) PR BATCH B3
DGC	Prof. Dhanashree Chaudhari	PROGRAMMING AND PROBLEM SOLVING (PPS)
PK	Prof. Prashant Kumar	ENVIRONMENTAL STUDIES-II (EnV-II)
SNK	Prof. Santosh Karle	PROJECT BASED LEARNING (PBL) PR BATCH B2
HDD	Prof. Harshada Dabhade	PHYSCAL EDUCATION (PEd)

Class Teacher
Prof. Avinash Tekale

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CAYMET's

SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE, PUNE-412109

DEPARTMENT OF FIRST YEAR ENGINEERING

DIVISION C - TIMETABLE

SEM II | A.Y:-2022-23 | WITH EFFECT FROM : 10/04/2023

DAY / TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
08:45 - 09:45	EGR C1 PBL C2 CHEM C3	EGR	CHEM	EM	BEE
09:45 -10:45		EGR	BEE	CHEM	M-II
10:45 - 11:00	SHORT BREAK				
11:00 - 12:00	BEE	CHEM	CHEM C1 BEE C2 EM C3	EGR	EM C1 EGR C2 PBL C3
12:00 - 01:00	EM	BEE		EGR	
01:00 - 01:30	LUNCH BREAK				
01:30 - 02:30	CHEM	EM		M-II	M-II
02:30 -03:30	M-II	PBL C1 CHEM C2 BEE C3	M-II (TU)	BEE C1 EM C2 EGR C3	CHEM
03:30 - 04:30	EM (TU)		EnV-II		PEd (SNK)

ROLL NO.	GFM
301 - 330	Prof. R.S. More
331 - 357	Prof. Pooja Patil

PR BATCH C1	301 to 319
PR BATCH C2	320 to 338
PR BATCH C3	339 to 357

INITIALS	NAME OF FACULTY	SUBJECT NAME
UVS	Dr. Uttam V. Shinde	ENGINEERING CHEMISTRY (CHEM)
		PROJECT BASED LEARNING (PBL) PR BATCH C3
NSK	Prof. Nanda Kulkarni	BASIC ELECTRICAL ENGINEERING (BEE)
RSM	Prof. R .S. More	ENGINEERING GRAPHICS (EGR)
PAP	Prof. Pooja Patil	ENGINEERING MECHANICS (EM)
SNK	Prof. Santosh Karle	ENGINEERING MATHEMATICS II (M-II)
		PROJECT BASED LEARNING (PBL) PR BATCH C2
		PHYSCAL EDUCATION (PEd)
PK	Prof. Prashant Kumar	ENVIRONMENTAL STUDIES-II (EnV-II)
HDD	Prof. Harshada Dabhade	PROJECT BASED LEARNING (PBL) PR BATCH C1

ClassTeacher
Prof. R.S. More

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CAYMET's

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DEPARTMENT OF FIRST YEAR ENGINEERING

DIVISION D - TIMETABLE

SEM II | A.Y:-2022-23 | WITH EFFECT FROM : 10/04/2023

DAY / TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
08:45 - 09:45	BEE	CHEM	EGR	BEE	EGR D1 PBL D2 CHEM D3
09:45 -10:45	EM	EM	EGR	PEd (APT)	
10:45 - 11:00	SHORT BREAK				
11:00 - 12:00	EGR	EM D1 EGR D2 PBL D3	M-II	CHEM D1 BEE D2 EM D3	BEE
12:00 - 01:00	EGR		M-II		CHEM
01:00 - 01:30	LUNCH BREAK				
01:30 - 02:30	EnV-II	M-II	CHEM	CHEM	EM
02:30 -03:30	PBL D1 CHEM D2 BEE D3	EM	BEE D1 EM D2 EGR D3	CHEM	M-II
03:30 - 04:30		M-II (TU)		M-II	BEE

ROLL NO.	GFM
401 - 430	Prof. Harshada Dabhade
431 - 455	Prof. Santosh Karle

PR BATCH D1	401 to 418
PR BATCH D2	419 to 436
PR BATCH D3	437 to 455

INITIALS	NAME OF FACULTY	SUBJECT NAME
NSK	Prof. Nanda Kulkarni	BASIC ELECTRICAL ENGINEERING (BEE)
		PROJECT BASED LEARNING (PBL) PR BATCH D3
RSM	Prof. R .S. More	ENGINEERING GRAPHICS (EGR)
		PROJECT BASED LEARNING (PBL) PR BATCH D1
PAP	Prof. Pooja Patil	ENGINEERING MECHANICS (EM)
		PROJECT BASED LEARNING (PBL) PR BATCH D2
HDD	Prof. Harshada Dabhade	ENGINEERING CHEMISTRY (CHEM)
SNK	Prof. Santosh Karle	ENGINEERING MATHEMATICS II (M-II)
APT	Prof. Avinash Tekale	PHYSCAL EDUCATION (PEd)
PK	Prof. Prashant Kumar	ENVIRONMENTAL STUDIES-II (EnV-II)

Class Teacher
Prof. Harshada Dabhade

Time Table In-charge
PROF.R.S.MORE

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DR.C.V.SHINDE

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SEAL

22/4/23

Assignment No-1

Q-1) What is hardness of water? Explain temporary and permanent hardness of water.

⇒ Hardness of water:-

The water which will not give foam formation but will give precipitate on addition of soap solution is called hardness of water.

The hardness of water is due to dissolved salts

For Eg:- Carbonate salts

- $Mg(HCO_3)_2$, $Ca(HCO_3)_2$, $Na(HCO_3)_2$

Non-Carbonate Salts

- $CaCl_2$, $MgCl_2$, $MgSO_4$, $CaSO_4$ & Nitrates of Fe, Mg, Ca, Mn

i) Temporary Hardness:-

The hardness which we can remove by boiling the water is called as temporary hardness / Carbonate hardness / Alkaline hardness

$$Ca(HCO_3)_2 \xrightarrow{\text{Boil}} CaCO_3 \downarrow + CO_2 \uparrow + H_2O$$

$$Mg(HCO_3)_2 \xrightarrow{\text{Boil}} Mg(OH)_2 \downarrow + CO_2 \uparrow + H_2O$$

ii) Permanent Hardness:-

The hardness which cannot be removed by boiling is called as permanent hardness / Non-Carbonate / Non-Alkaline Hardness

Eg:- $MgSO_4$, $CaSO_4$, $MgCl_2$, $CaCl_2$

Q.8] What is alkalinity of water? State the types of alkalinity. How alkalinity of water is described?

⇒ i) Alkalinity of water is ability of water to neutralise the acids.

ii) Alkalinity is due to presense of HCO_3^-, CO_3^{2-} or of sodium, Potassium, calcium and magnesium.

iii) Depending on types of anions present alkalinity is classified as bicarbonate alkalinity carbonate alkalinity and hydroxide alkalinity

* The type and amount of alkalinity present in water sample may be determined by titrating water sample with the standard acid using phenophthalein and methyl orange indicators.

* The determination is based on following reactions:-

i) $OH^- + H^+ \longrightarrow H_2O$

ii) $CO_3^{2-} + H \longrightarrow HCO_3^-$

iii) $HCO_3^- + H^+ \longrightarrow H_2O + CO_2$

Procedure for determination

i) Fill the burette with 0.5 N H_2SO_4

ii) Take in conical flask water sample

iii) Add 0.3 drops of phenolaphthalin indicator (the pink colour is due to presence of strong alkali OH^- and CO_3^-)

iv) Add drop wise acid solution from burette with continuous steering to till pink colour gets

disappear.

v) Add 2-3 drops of methyl orange indicator we get faint yellow color.

vi) Continue the titration till yellow → Pale orange

Formula to find alkalinity of water

ppt alkalinity (P) = $\frac{V_1 \times N \times 50 \times 1000}{V}$ mg/dit

methyl orange (M) = $\frac{V_2 \times N \times 50 \times 1000}{V}$ mg/dit

V_1 = volume of acid consumed for ppt

V_2 = volume of acid consumed for m

N = Normality of acid in burette

V = volume of water.

Q.8] State the ## types of boiler and explain the ill effects of boiler.

⇒ i) The most important use of water in industries of steam generation using boilers. The boilers feed water should be free from impurities in order to avoid troubles inside the boiler.

a Types of Boiler:

i) Low Pressure boiler ⇒ 70-85 ppm

ii) Medium Pressure boiler ⇒ 10-40 ppm

iii) High Pressure boiler ⇒ 0-3 ppm

ii) Ill effects of boiler:- If the boiler feedwater is not up to the standard limit it gives rise to number of problems or ill effect of

Assignment No-2

Q-1] What is wet corrosion? Explain the H2 evolution and O2 absorbtion corrosion mechanism.

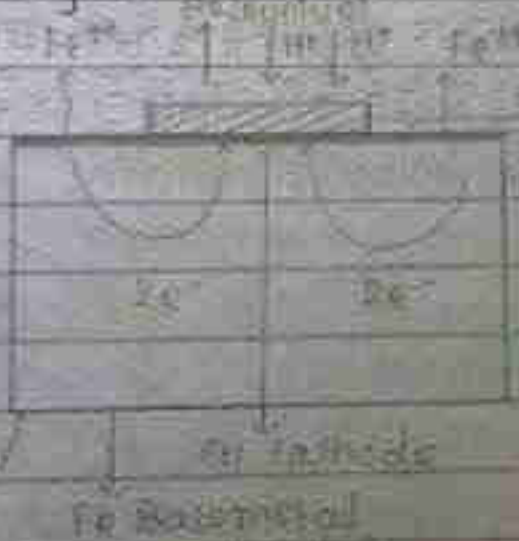
→ Wet corrosion is also known as indirect or immersed corrosion. Wet corrosion occurs due to following two conditions:-

i) When conducting liquid is in contact with metals

ii) When two dissimilar metals are in contact in presence of conducting medium.

1) H2 evolution corrosion:- (Corrosion in Acidic medium)

- These type of electrochemical corrosion always occurs in acid medium, acidic environment like industrial waste.
- Suppose steel tank containing acidic industrial waste and a small copper scrap are in contact with electrolyte, at that time cu scrap acts as a cathode and steel tank acts as a anode & steel tank undergoes corrosion:-



- The oxidation and reduction reaction takes place at anode and cathode is as follows.

At anode.

$$Fe(s) \longrightarrow Fe^{++} + 2e^- \quad \text{--- (oxidation)}$$

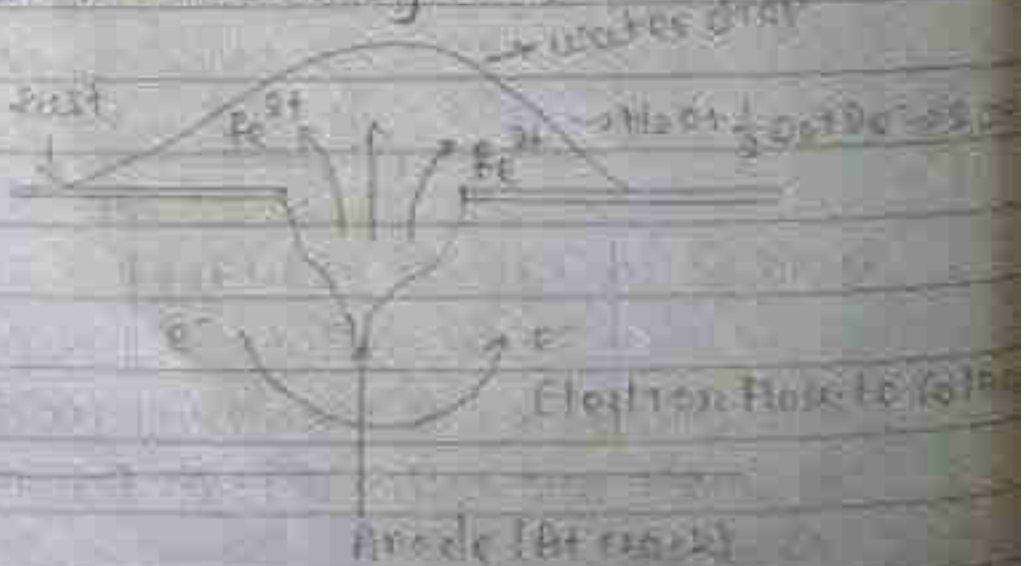
At cathode

$2H^+ + 2e^- \longrightarrow H_2\uparrow$ ... (Reduction)

- At anode, Iron passes into electrolyte in the form of Fe^{++} ions while, at cathode the ions form Acidic electrolyte combines with electron and evolution of H_2 gas takes place at cathode

2) Corrosion in alkaline or neutral medium or O_2 absorption corrosion mechanism:-

- These type of electrochemical corrosion occurs when electrolyte is neutral or alkaline containing dissolved O_2.
- Consider A steel plate lying on the ground and expose to atmosphere. The MO film is formed on the surface of steel plate and it is ruptured at one pe place (having small plate and it is ruptured at one place (having small crack) & whole assembly is contact with alkaline or neutral medium as shown in below diagram.



- This type of protection method is used for such a metal which shows positivity phenomenon & the passivity is nothing but metals have corrosion resistance tendency even though they are placed in higher position in galvanic series.

* Application of Protective coating:-
- chemical reactors, tanks.
- pipes carrying corrosive liquids.

* Advantages:-
- Anodic protection has greater throwing power than cathodic protection hence quite complex structures can be protected.
- it requires low current density hence its operation cost is low.

Q-8] What is cathodic and anodic coating? Which is more protective & why?

⇒ • Cathodic coating:-
Cathodic coating is a type of electrochemical process in which we can protect a metal surface by making it the cathode in the electrochemical cell.
• Anodic coating:- it is a type of electrochemical process in which we can protect a metal surface by making it the anode in the

electrochemical cell

- In these basemetal remains same until unless and until there is a proper metal coat but if coat get ruptured or having crack the corrosion of base metal start because base metal is anode and in presence of oxygen and moisture it undergoes oxidation. Therefore anodic coating is more effective than cathodic coating.

SIDDHANT COLLEGE OF ENGINEERING

DEPARTMENT OF FIRST YEAR ENGINEERING

AY 2022-2023

DIVISION - D

Subject Name- Engineering Chemistry

ASSIGNMENT RECORD

Date 27/4/23

Roll No.	Assignment No. / Question Name	1 (2.4.23)	2 (4.4.23)	3	4	5	6
01	[illegible]						
02	[illegible]	✓	✓	P			
03	[illegible]	✓	✓	P			
04	[illegible]	✓	✓	P			
05	[illegible]	✓	✓	P			
06	[illegible]						
07	[illegible]	✓	✓	P			
08	[illegible]	✓	✓	P			
09	[illegible]	✓	✓	P			
10	[illegible]						
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69	[illegible]	✓	✓	P			
70	[illegible]	✓	✓	P			

Siddhant college of Engg 15/20

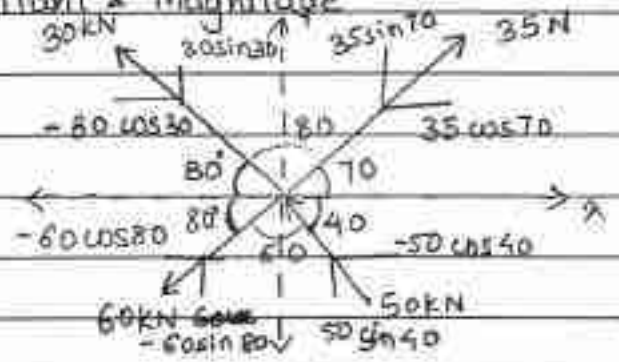
Roll No: 254

UNIT-TEST-1

UT-1

8/12/22	SUB: Engineering Mechanics	Sanket. R. W Div -(B), BE (FY) Roll no:- 254

Q 1) Find resultant & magnitude



$$\Sigma f_x = R_x = 35\cos(70)^\circ - 30\cos(30)^\circ - 60\cos(80)^\circ - 50\cos(40)^\circ$$
$$= -62.73 \text{ kN}$$

$$\Sigma f_y = R_y = 35\sin(70)^\circ + 30\sin(30)^\circ - 60\sin(80)^\circ + 50\sin(40)^\circ$$
$$= 21 \text{ kN}$$

$$R = \sqrt{(R_x)^2 + R_y)^2} = \sqrt{(-62.73)^2 + (21)^2}$$
$$R = 66.15 \text{ kN}$$

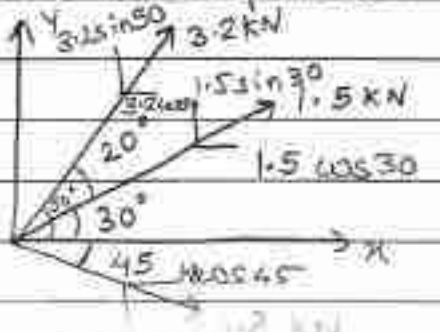
$$\tan\theta = \frac{R_y}{R_x}$$

$$\therefore \theta = \tan^{-1}\left(\frac{R_y}{R_x}\right) = \tan^{-1}\left(\frac{21}{62.73}\right)$$

$$\boxed{\theta = 18.5}$$

Q2) Determine X & Y components for each force

F.B.D



For force 1.5kN The components are

I

for force 3.2 kN The components are

$x = 3.2 \cos 50° = 2.055$ kN

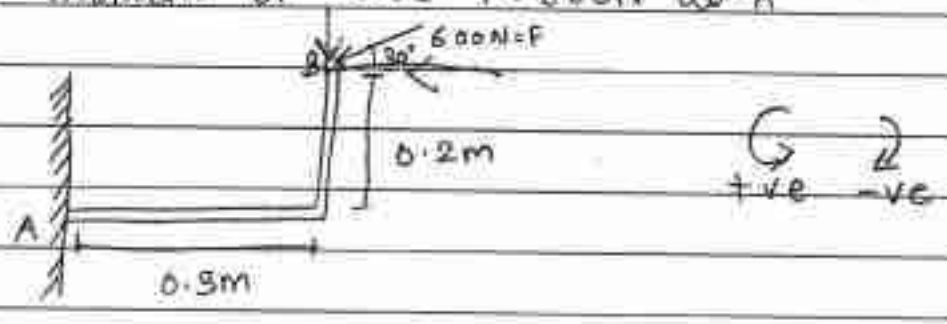
$y = 3.2 \sin 50° = 2.45$ kN

for force 1.8kN the components are

$x = 1.8 \cos 45° = 1.272$ kN

$y = -1.8 \sin 45° = -1.272$ kN

(3) Find moment of force F = 600N about A

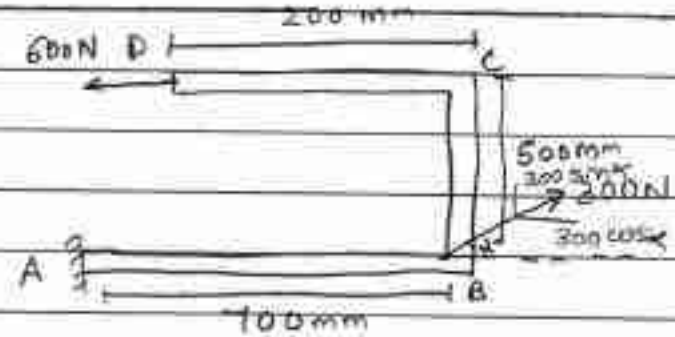


Moment at A (M_A) = (600 × 0.3)

M_A = 1800 N.m

∴ The moment about A of force 600 is 180 N.m

4)



Given :-

$M_A = 405$ N m

Find 2 value of α (0 ≤ α ≤ 180)

$M_A = (600 \times 0.5) + (300 \sin\alpha \times 0.7)$

$405 = 300 + 210 \sin\alpha$

$\therefore 405 - 300 = 210 \sin\alpha$

$\therefore 210 \sin\alpha = 105$

PAGE NO.:
DATE: / /

$\alpha = 30$

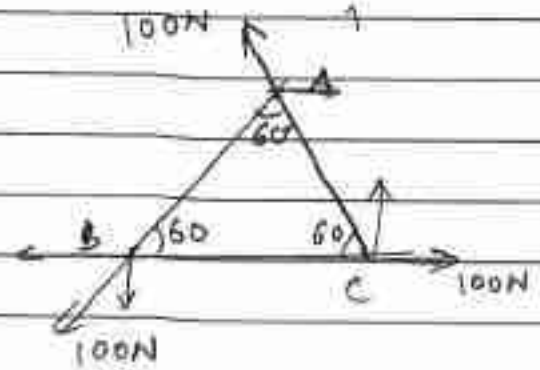
$\therefore 0 \leq \alpha \leq 180$

$\therefore \quad 180 - \alpha = 180 - 30$

$= 150°$

$\therefore \quad \boxed{\alpha = 30}, \quad \boxed{\alpha = 150}$

Q5 Determine magnitude & Direction.

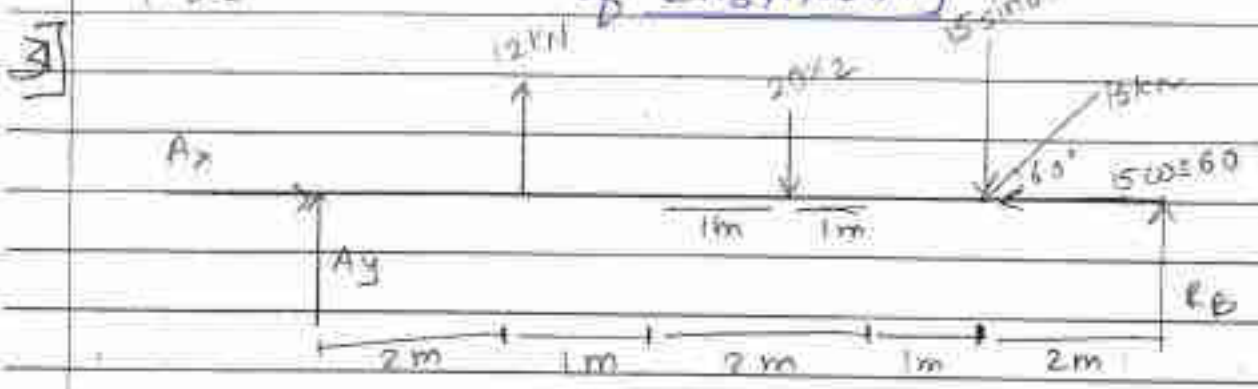


Mechanics — UNIT Test II — 22/30 — Roll No. 254

Engineering — 8-02-23

Questions:- Siddhant college of Engineering — UNIT TEST-II

F.B.D



$\Sigma fx = 0$

$= Ax - 15\cos 60$

$Ax = 7.5$ N

$\Sigma fy = 0$

$\Rightarrow Ay + 12 - 40 - 15\sin 60 + R_B$

$Ay + R_B = 40 + 15\sin 60 - 12$

$Ay + R_B = 41$

$\therefore Ay = 14.25$ N

$\Sigma M_A = (12 \times 2) - (40 \times 4) - (15\sin 60 \times 6) + (R_B \times 8)$

$8R_B = (40 \times 4) + (15\sin 60 \times 6) - (12 \times 2)$

$R_B = \frac{214}{8}$

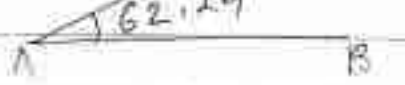
$R_B = 26.75$ N

$R_A = \sqrt{(7.5)^2 + (14.25)^2}$

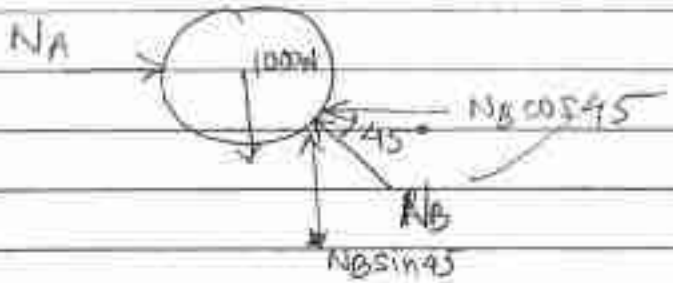
07. $R_A = 16.10$ N

$\therefore \theta_A = \tan^{-1}\left(\frac{14.25}{7.5}\right)$

$\theta_A = 62.24$



1] F.B.D



$\Sigma f_x =$

$N_A - N_B \cos 45$

$N_A = 1000\,N$

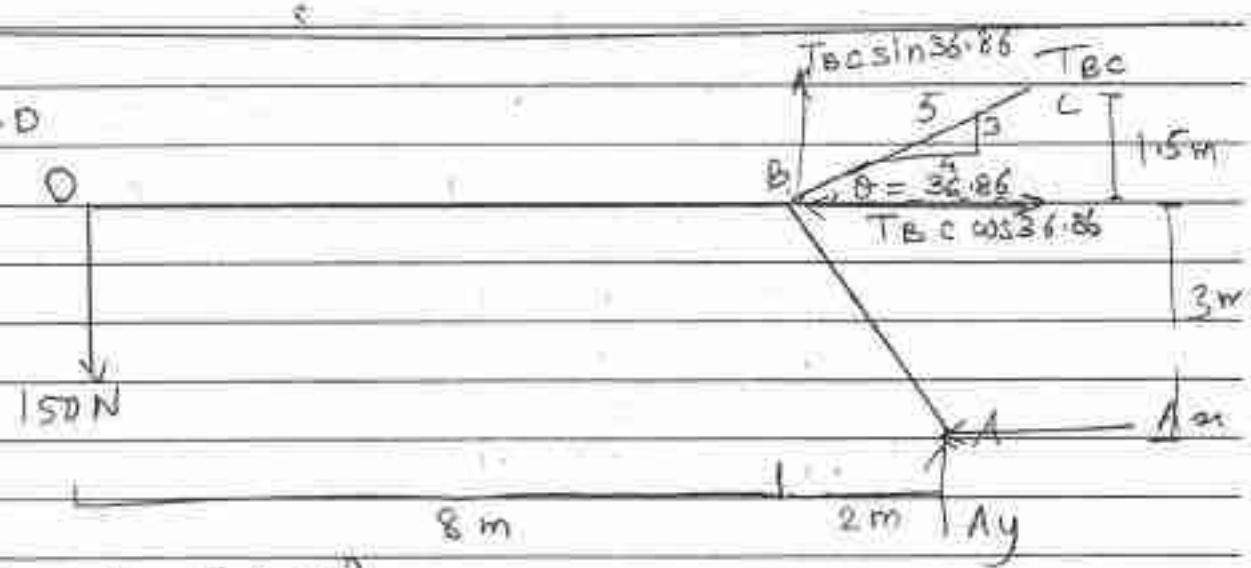
$\Sigma f_y = -1000 + N_B \sin 45$

$N_B = \frac{1000}{\sin 45}$

or

$N_B = 1414.21\,N$

2] F.B.D



$\theta = \tan^{-1}\left(\frac{3}{4}\right)$

$\therefore \Sigma f_x = -A_x + T_{BC} \cos 36.86 = 0$

$A_x = T_{BC} \cos 36.86 = 0$

or

$\Sigma f_y = -150 + A_y + T_{BC} \sin 36.86$

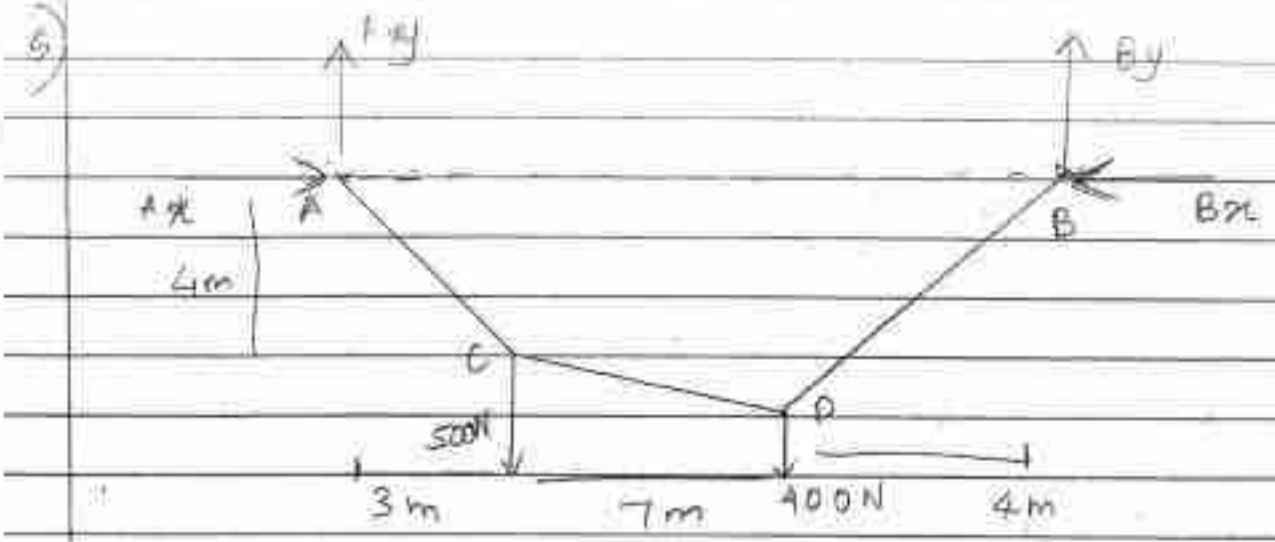
$A_y + T_{BC} \sin 36.86 = 150$

$\Sigma M_A = (150 \times 10) + (T_{BC} \cos 36.86 \times 3) = 0$

$T_{BC} \cos 36.86 = +1500$

$T_{BC} = 1874.75$

5)



$\Sigma f_x = 0$

$\Rightarrow Ax - Bx = 0 \quad \therefore Ax = Bx$

$\boxed{Bx = 380.36}$

$\Sigma F_y = 0 + Ay + By - 500 - 400$

$Ay + By = 900$

$\boxed{Ay = 507.15}$

$\Sigma M_A = (-500 \times 3) - (400 \times 10) + (By \times 14)$

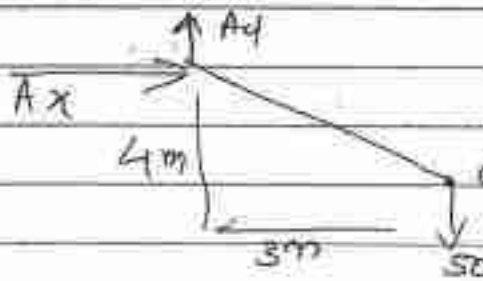
$14By = (500 \times 3) + (400 \times 10)$

$= 1500 + 4000$

$By = \frac{5500}{14}$

$\boxed{By = 392.85}$

F.B.D of AC



$\therefore \Sigma M_C = (-Ax \times 4) + (Ay \times 3)$

$4Ax = 3Ay$

$4Ax = 3 \times 507.15$

$\boxed{Ax = 380.36}$

$R_A = \sqrt{(380.36)^2 + (507.15)^2}$

$R_A = 633.93\ N$

$\theta_A = \tan^{-1}\left(\frac{A_y}{A_x}\right)$

$= \tan^{-1}\left(\frac{507.15}{380.36}\right)$

$\theta_A = 53.13$

$R_B = \sqrt{(380.36)^2 + (392.85)^2}$

$R_B = 546.81$

θ_B

$\theta_B = \tan^{-1}\left(\frac{392.85}{380.36}\right) \Rightarrow \theta_B = 45.92$

Maximum Tension is at R_A

$T_{AC} = 633.93\ N$

SIDDHANT COLLEGE OF ENGINEERING

DEPARTMENT OF FIRST YEAR ENGINEERING

A.Y. 2022-23

DIVISION - A

SUBJEST NAME- ENGINEERING MECHANICS

CLASS TEST LIST

		08/12/22.		08/02/23.	
Roll No.	Candidate Name	Unit Test-I	Unit Test-I	Unit Test -II	Unit Test -II
		Students Sign	Marks	Students Sign	Marks
101	AMBRE SWAPNIL DEEPAK	AB			17.
102	BACCHE VAISHNAVI CHANDRAKANT		10		17
103	BAGADI CHANCHAL RAJU		12	AB	
104	BARI AYUSH SUNIL		09	AB	
105	BIDKAR DURVESH DINESH		03		08
106	BISWAS BISHAKHA BASUDEV		09		04
107	BOROLE SAKSHI GHANSHYAMDAS		11		09
108	CHAUHAN SUMERSINGH J.		06		13
109	CHORAGE SAYALI SANJAY		06		16
110	DHONAGE SAPNA SUBHASH		06		13
111	DESHMUKH HARSHAL DILIP		09	AB	
112	DESHMUKH JANHAVI DILIPRAO		06		05
113	DESHMUKH OM SHANKAR		06	AB	
114	DIVEKAR SANIKA SUNIL		03		11
115	GADEKAR OM PRATAP		09		15
116	GADHAVE PREM RAJENDRA		09	AB	
117	GANGOLE GAURI NANDKISHOR		06		06
118	HUNASNALE SNEHA RAJKUMAR		09	AB	
119	INGALE MOTIRAM BABARAO		10		14
120	JOSHI SUJAL ANIL		09	AB	
121	KADAM RUTURAJ RAMESH		13		04
122	KAKADE ADITYA DATTATRAYA		10		07
123	KALE GAURAV SANJAY		11		07
124	KAMBLE ISHA RAJESH	AB		AB	
125	KOBADE AARYA MURLIDHAR		10		05
126	KARGUDE SANSKRUTI SHIVAJI		08		04
127	KHAIRE SIDDHI RAJENDRA		14		18
128	KHARCHE JITENDRA GANESH		06		10
129	KOTHAWALE MANISH MAHESH		08		13
130	KURLEKAR ATHARVA SATISH	AB			05

SEAL

131	MANDADE MOHIT SANTOSH		10	AB	
132	MARATHE HRISHIKESH SANTOSH		09		09
133	MURTHY RAVIKIRAN KRISHNA		03		06
134	NAYAKODI LAXMI BHAGANTEPPA		11		16
135	PASHILKAR TANMAY KIRAN		12		16
136	PATIL NIKHIL SHIVAJI	AB		AB	
137	PATIL OMKAR JOTIBA		06		08
138	PATIL SAHILKUMAR ANANDRAO		07		
139	PAWADE SAURABH VIVEK	AB			11
140	PAWAR MANSI NAVNEET		08		12
141	PAWAR RISHABH RAJENDRA		09	AB	
142	PHALKE UDAY NAVNATH	AB			04
143	RASKAR SAKSHI PRASHANT		09		10
144	SAMBUDDHI MOHAN BHOR		07		09
145	SARAWADE ROHIT SUNIL		10	AB	
146	SARTAPE SHIVKUMAR VINAYAK	AB			13
147	SATAV MOKSHNATH PRAMOD		09		12
148	SAWANT SUSHANT HANUMANT		02		23
149	SHARMA AKSHAY MANOJ		06	AB	
150	SHIWALE SONAL RAJENDRA		05		06
151	SINGH SANDEEP UDAY		06	AB	
152	SONAWANE DIVYA RAJESH		12		10
153	SURYAWANSHI SHASHIKANT S.		09		07
154	THAKUR PRINCE SATISH		10		16
155	TUPE SHWETA NAVNATH		06		19
156	VARE PRATIK BALU		05		10
157	VARE SHRIDHAR LANKU		06		10
158	WALUNJ NIKHIL KUNDAN		06		09
159	AKASH GANGADHAR SHELKE		04		10

PROF.POOJA A. PATIL
SUBJECT TEACHER

DR.[illegible]
HOD

SEAL

SIDDHANT COLLEGE OF ENGINEERING

TALEGAON-CHAKAN RD, SUDUMBRE, PUNE 412109

DEPARTMENT OF FIRST YEAR ENGINEERING

A.Y. 2022-23

DIVISION - B

Subject Name- Engineering maechanics (EM)

CLASS TEST LIST

		02/12/22.		08/02/23	
		Unit Test- I	Unit Test- I	Unit Test -II	Unit Test -II
Roll No.	Candidate Name	Students Sign	Marks	Students Sign	Marks
201	DHANGAR PAVAN SANTOSH	AB		AB	
202	ALHAT CHINMAY PRAMOD		14		12
203	VISHAL BAPU WAGHMODE		13	AB	
204	AYUSH BAG		05		12
205	BHAGAT KSHITIJA KUNDLIK		15		12
206	BHANGE DIPALI ACHYUT		15		09
207	BIRADAR ANJALI RAMESH		15	AB	
208	BOCHARE AISHWARYA SANJAY		15	AB	
209	CHAUDHARY VAISHNAVI BALISTER		15		15
210	CHAVAN VISHAL PRAVIN	A	12		09
211	CHELEKAR MAHESH RAJARAM		13		12
212	DEOKAR SNEHA SURESH		13		07
213	DHANOKAR SAKSHI JAYDEO		15		12
214	DHOLE ADITYA SANJAY		01		15
215	GADE KARTIK ARUN		11	AB	
216	GAIKAR ABHISHEK ROHIDAS		05		15
217	GAIKWAD POOJA RAM		12		14
218	GHULE YOGRAJ HARISHCHANDRA	AB			09
219	GOLE ATHARV BHARAT		10		06
220	HAJARE SANKET SADASHIV		13		11
221	HINGE KSHITIJ GOKUL		03		09
222	KAD SAI SANTOSH		15	AB	
223	KALANGE PRATHAMESH VIKAS		10	AB	
224	KANASE ATHARVA JEETENDRA		08	AB	
225	KARANDE JAY ANAND		10		06
226	KHANDE RAMESHWAR SANJAY		08		11
227	LAKHMALE ASHISH ANANT		11		13
228	MANE SNEHAL BABAN	S.B.Mane.	15	S.B.Mane.	21
229	MOHITE APEKSHA DATTATRAYA		14	AB	
230	NAGARGOJE ABHISHEK DEVIDAS	AB		AB	

SEAL

231	NAIK VIKAS MALKHAN		10		05
232	PADWAL SAHIL DATTATRAY		02		14
233	PANDEY HEMANGI UMESHCHANDRA		15		22
234	PATIL AYUSH SANJAY		02	AB	
235	PATIL SHREYA SANTOSH		15		13
236	PATOLE SUJAL NAVNATH		15		20
237	PAWAR HARSHAL VILAS		06	AB	
238	SARTHAK SHASHIKANT WAGHMARE	AB		AB	
239	SAYYAD SAMEER JAMEER		13		14
240	SEWLIKAR HARSHIT KULDEEP		14		13
241	SHELKE DNYANESHWAR SANJAY		02		09
242	SHITOLE VAISHNAVI RAMDAS		15		16
243	SOMASE ADITYA PANDURANG		11		09
244	SURYAWANSHI ANIKET TANAJI		06		10
245	SURYAWANSHI PRASAD DILIP		12	AB	
246	SUYASH KACHARU NICHIT		09		14
247	TAMBE ARJUN ASHOK		11		09
248	TARHALE RAJESHWAR GAJANAN		11		09
249	TEKALE YASH MUKUNDA		10		09
250	THORAWADE ASHWINI TANAJI		15		10
251	TURE SHAHIR SANJAY		11	AB	
252	VAIDYA SURAJ DATTATRAY	S.D vaidya	06	S.D vaidya	11
253	WAGHMARE TANUJA SHRAVAN		15		10
254	WABOLE SANKET RATNAKAR		15		23
255	YADAV PRITHVIRAJ SACHIN		12		12
256	YEDKE YOGITA ASHRUBA		03		08
257	YEOLE SHREYA KISHOR		15		12
~~258~~	~~WALDE SUKHIL KUNDAN~~	—	—	—	—
~~259~~	~~AKARE GANGADHAR SHRIKE~~	—	—	—	—

PROF.POOJA A. PATIL
SUBJECT TEACHER

DR.U
HOD

SEAL

C.A.Y.M. Education Trust's

SIDDHANT COLLEGE OF ENGINEERING.

(Approved by AICTE, Recognised by Government of Maharashtra and Affiliated to University of Pune)

At. Post - Sudumbare, Tal. - Maval, Dist. - Pune, PIN - 412 109.

☎ 02114 - 661901 Tele Fax No. 02114 - 661902

website :- www.siddhantcoe.in E-mail: engineeringprincipal@gmail.com

Shri R. S. Yadav
President

Dr. L. V. Kamble
Principal

Date:- 20/02/2023

NOTICE

All FE students are hereby informed that the Prelim Examination of SEM- I have been scheduled from **Wednesday,01/03/2023 to Wednesday 08/03/2023.**The question paper pattern will be as per SPPU norms. All students are instructed that attendance is compulsory for the examination. The detailed schedule will be displayed on the notice board.

Dr. U.V. Shinde
FE-HOD

SEAL

SIDDHANT COLLEGE OF ENGINEERING

F.E. PRELIMINARY EXAMINATION

SEMESTER – I A.Y.2022-23

PROGRAMME OF F.E.(2019 COURSE)(CREDIT SYSTEM)

INSTRUCTIONS FOR CANDIDATES

- Candidates are required to be present at the examination centre, THIRTY MINUTES before the stipulated time.
- Candidates are forbidden from taking any material into the examination hall that can be treated as a malpractice.
- Candidates are requested to see the Notice Board at their center of examination regularly for changes if any that may be notified later in the program.
- No request shall be granted for change in time or date for the University Examination on any ground.
- Candidates are requested to note the Day, Date and Time of Paper.
- Candidates are permitted to use stencils at the time of examination.
- The exchanges of side-rules, drawing instruments of other materials used in the examination hall is not permitted at the time of examination. Candidates must bring their own instruments and will not be allowed to borrow from each other under any circumstances.
- Use of non-programmable battery operated electronic pocket size Calculator is allowed. The exchange of Calculators is not allowed. Electronics Devices including mobile are not allowed at the time of examination.
- The written examination will be conducted in the following order.

Siddhant College of Engineering SEAL

SIDDHANT COLLEGE OF ENGINEERING

F.E. PRELIMINARY EXAMINATION

SEMESTER - I A.Y.2022-23

TIMETABLE

Time:-10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 01-03-2023	107009	ENGINEERING CHEMISTRY
Wednesday 01-03-2023	107002	ENGINEERING PHYSICS
Thursday 02-03-2023	103004	BASIC ELECTRICAL ENGINEERING
Thursday 02-03-2023	104010	BASIC ELECTRONICS ENGINEERING
Friday 03-03-2023	110005	PROGRAMMING AND PROBLEM SOLVING
Friday 03-03-2023	101011	ENGINEERING MECHANICS
Monday 06-03-2023	102003	SYSTEMS IN MECHANICAL ENGINEERING
Wednesday 08-03-2023	107001	ENGINEERING MATHEMATICS-I

Date: 27/02/2023

Prof. R.S.More
Exam-coordinator

Dr.U.V.Shinde
HOD

Dr.L.V.Kamble
Principal
Principal
Siddhant College of Engineering
Sudumbare,Pune - 412 109

SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE

FE PRELIMINARY-EXAMINATION

A.Y. 2022-23

SEMESTER - I

JOUNIOR SUPERVISOR DUTY CHART

Sr. No.	Name of Faculty	1/3/2023	2/3/2023	3/3/2023	6/3/2023	8/3/2023	Total	SIGN
		10:00 AM - 12:30 PM						
1	Prof. Avinash Takale	BLOCK NO.01	BLOCK NO.03		BLOCK NO.04	BLOCK NO.06	4	
2	Prof. Sonali Ghuge			BLOCK NO.01	BLOCK NO.02	BLOCK NO.03	3	
3	Prof. Shilpa Charapale	BLOCK NO.02	BLOCK NO.01	BLOCK NO.04			3	
4	Prof. Deepak Kute		BLOCK NO.02	BLOCK NO.03	BLOCK NO.01	BLOCK NO.04	4	
5	Prof. Ashwini Bhosale	BLOCK NO.03			BLOCK NO.06	BLOCK NO.05	3	
6	Prof. Pooja Patil	BLOCK NO.04		R	BLOCK NO.07	BLOCK NO.02	3	
7	Prof. Dipali Bajare		R	BLOCK NO.02	BLOCK NO.05	BLOCK NO.01	3	
8	Prof. Harshada Dabhade	R	BLOCK NO.04		BLOCK NO.03	BLOCK NO.07	3	

SEAL

INT. SENIOR SUPERVISOR

Prof R.S. More

Total No. of Questions: 8

Seat No. [ ]

107002

Total No. of Pages: 4

SIDDHANT COLLEGE OF ENGINEERING

F.E. PRELIMS EXAMINATION

ENGINEERING PHYSICS

(2019 PATTERN) (Semester-II)

[Time: 2½ Hours] *[Maximum Marks: 70]*

Instructions to the candidates:

1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7or Q8.
2) Neat diagrams must be drawn wherever necessary.
3) Figures to the right side indicate full marks.
4) Use of logarithmic tables slide rule, Mollier charts, electronic pocket calculator and steam tables is allowed. 5) Assume suitable data, if necessary.

Physical Constants :
1) Mass of Electron (M_e) = 9.1×10^{-31} kg
2) Charge on Electron (e) = 1.6×10^{-19} C
3) Mass of Proton (M_p) = 1.673×10^{-27} kg
4) Mass of neutron (M_n) = 1.673×10^{-27} kg
5) Velocity of light (c) = 3×10^8 m/s
6) Plank's constant (h) = 6.63×10^{-34} J.s

Q.1 a) Derive an equation for energy of a particle enclosed in 1D rigid box or in an infinite potential well. [6]

b) State and explain Heisenberg's uncertainty principle. [4]

c) Calculate de Broglie wavelength of electron having kinetic energy 1KeV [4]

d) Derive the expression for de Broglie wavelength for a particle when it is moving with kinetic energy 'E'. [4]

OR

Q.2 a) Derive Schrodinger's time independent wave equation. [6]

b) State the de Broglie hypothesis and explain any three properties of matter waves. [4]

c) What is wave function Ψ? Write mathematical conditions well behaved wave function [4]

d) Lowest energy of an electron trapped in potential well is 38 eV. Calculate the width of well in A.V. [Given : Mass of electron 9.1×10^{-31} kg, plank constant 6.63×10^{-34} J-s, charge on electron 1.6×10^{-19} C. [4]

Q.3 a) Explain Hall effect with figure. Derive the equation of Hall voltage and Hall coefficient. [6]

b) What is fermi level in a semiconductor? With the neat labelled diagram, draw the position of fermi level in N Type & P Type semiconductor at 0° K. [4]

c) State the advantages (any two) and applications (any two) of solar cell. [4]

d) A copper strip 2.0 m wide, 1.0 mm thick is placed in a magnetic field of 1.5T. If a current of 200 A is set up in the strip, calculate the Hall voltage that appears across the strip. Assume RH = 6×10^{-7} m^3/C. [4]

OR

Q.4 a) Define Fermi level in metals. Write Fermi-Dirac probability distribution function and explain the meaning of each term. [6]

b) Draw a neat and labelled diagram showing I-V characteristics of a solar cell. Write the equations for fill factor and efficiency of solar cell. [4]

c) Define fermi level in conductors and semiconductors. Draw the position of fermi level in intrinsic, N – type & P - type semiconductors. [4]

d) Calculate the mobility of charge carriers in doped silicon whose conductivity is 10 ohm .m and the Hall coefficient is 3.6×10^{-4} m^3/c [4]

Q.5 a) Explain the following terms in superconductivity : [6]

i) Critical Magnetic field.

ii) Meissner effect.

b) Define (i) magnetic field strength (ii) magnetic induction (iii) magnetic permeability. Write relation between them. [4]

c) The transition temperature Tc for lead is 7.26 K. The critical magnetic field at 0K, i.e. Hc (0) is 8×10^5 A/m. It is to be used as a super conductor subjected to a magnetic field Hc (T) of 4×10^4 A/m. At what maximum temperature T, it can be operated without losing its superconductivity. [4]

d) What is super conductivity? Differentiate between type I & type II super conductors (any three). [3]

OR

Q.6 a) Define superconductivity with resistance Vs temperature graph and example. [6]
Explain zero electrical resistance in super conductivity.

b) Distinguish between diamagnetism, paramagnetism and ferromagnetism (two points each). [4]

c) Define with unit : (i) Magnetic field strength (H) (ii) Magnetization(M) [4]

d) For Niobium, if critical temperature Tc is 11.3 K and critical magnetic field at 0K is, Hc (0) is 2×10^5 A/m, Calculate critical magnetic field Hc (T) at T = 4.2K [3]

Q.7 a) Explain electrical and mechanical properties of nanoparticles. [6]

b) An ultrasonic pulse of frequency 130 kHz is sent through a block of steel. [4]
echo pulse is received after 1.695 s. If velocity of ultrasonic in steel is 5900m/s, calculate the thickness of the steel block and wavelength of the pulse.

c) Explain in brief how acoustic emission technique is used in non-destructive [4]
Testing

d) Explain in brief, the principle of radiography testing technique [4]

OR

Q.8 a) What is non-destructive testing ? State types of non-destructive techniques ? [6]
Explain ultrasonic testing technique for flaw detection.

b) What is nanotechnology ? Explain applications of nanotechnology in electronic [4]
field.

c) Write applications of nanotechnology in the field of automobiles. Explain any one application in brief. [4]

d) Distinguish between Destructive and Non Destructive testing (any two points) [3]

πππ

Choudhari Atarsingh Yadav Memorial Education Trust's

SIDDHANT COLLEGE OF ENGINEERING

Verified all entries & found correct

Jr.Supervisor's Name, Signature & Date

57/70 V. good

Seat No.(in figures) F190440319 Centre : 4044

Seat No.(in words) F- one nine zero four four zero three one nine

Day & Date : Wendsday 12-7-2023 Examination : Prilimenary exam

Subject : Physics Section :

Course / Paper No. Medium of Answer : English

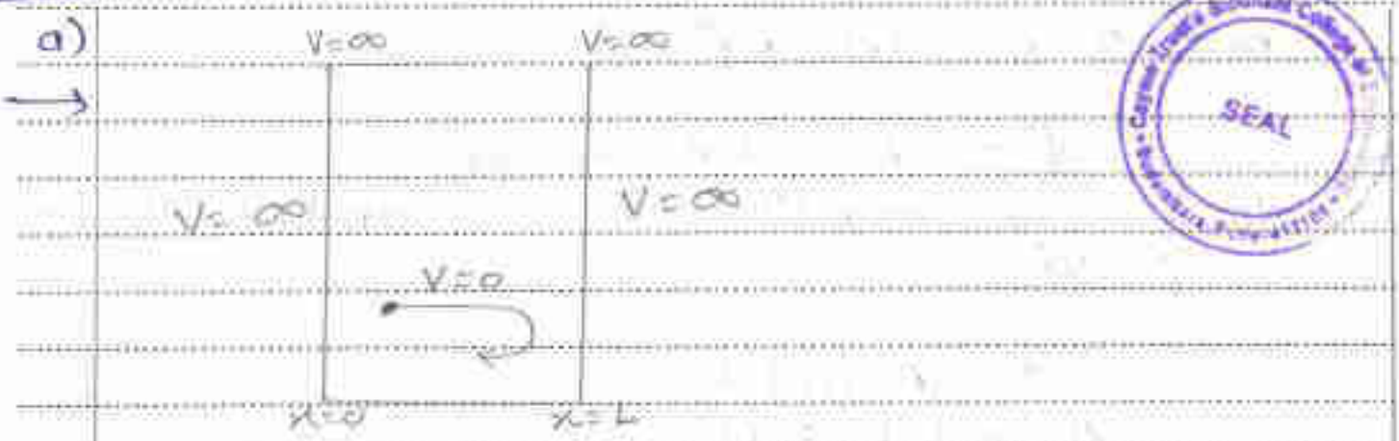
Main Ans. Book + No. of Supplements = Total

Q. No	1	2	3	4	5	6	7	8	9	10	11	12	Total	Signature of Examiner
Marks	13	—	15	—	13	—	16						57	
Q. No	1	2	3	4	5	6	7	8	9	10	11	12	Total	Signature of Examiner
Marks														

Use of Coloured pencil or ink is strictly prohibited except in case of Diagrams and Sketches
(Write on both sides and start writing on this page)

Q.1

a)



- consider a particle in 1D rigid box the velocity of particle is zero inside the box (V=0) and the velocity infinite outside the box (V=∞)
- The particle is enclosed in rigid box
- The particle cannot escape outside the box hence the wavefunction $\psi = 0$ at

$V = 0$ $\quad 0 > x > L$

$V = \infty$ $\quad x \leq 0$ and $x \geq L$

By using schrodinger time dependent wave equation

$$\nabla^2\psi + \frac{2m}{\hbar^2}(E-V)\psi = 0 \quad \text{---(1)}$$

when $V=0$ the eqn becomes

$$\frac{d^2\psi}{dx^2} + \frac{2mE\psi}{\hbar^2} = 0$$

put $\frac{2mE\psi}{\hbar^2} = k^2$ ---(2)

the solution of eqn (2) is

$\psi(x) = A\sin kx + B\cos kx$ ---(3)

at the

we use cond^n $\psi = 0$ and $x = 0$ in eqn (3)

$0 = 0 + B$

$\therefore \boxed{B = 0}$

put $B=0$ in eqn (2)

$\therefore \psi = A\sin kx$ ---(4)

Now use cond^n $\psi = 0$ and $x = L$ in eqn (4)

$0 = A\sin kL$

$\therefore A\sin kL = 0$

$\sin kL = 0 \quad \ldots (A \neq 0)$

$kL = n\pi$

$k = \frac{n\pi}{L}$

$\therefore$ put $k = \frac{n\pi}{L}$ in eqn (4) we get

$$\boxed{\psi_n = A\sin\left(\frac{n\pi x}{L}\right)} \quad \ldots (n = 1, 2, 3)$$

where

$$k^2 = \frac{2mE\psi}{\hbar^2}$$

$$\therefore \frac{n^2\pi^2}{L^2} = \frac{2mE\psi}{\hbar^2}$$

$$\therefore E_n = \frac{n^2 h^2}{8mL^2}$$

This is eqn of energy of particle enclosed in 1D rigid box

b) Heisenberg's uncertainity principle
- It state that it is impossible to determine simultaneously and accurately the position and momentum of particle.

measurment position is Δx and momentum is ΔP this are greater than or equal to plank's constan h

$$\therefore \Delta x \Delta P \geq \hbar$$

more accurately

$$\Delta x \Delta P = \frac{h}{2\pi}$$

c) Given :-

$E = 1 keV$ $\quad e = 1.6 \times 10^{-19} C$

$h = 6.63 \times 10^{-34} Js$

$m = 9.1 \times 10^{-31} kg$

$$\lambda = \frac{h}{\sqrt{2mE}}$$

$$\lambda = \frac{6.63 \times 10^{-34}}{\sqrt{2 \times 9.1 \times 10^{-31} \times 1 \times 1.6 \times 10^{-19}}}$$

$$\lambda = 2.27 \times 10^{-34}$$

d) The kinetic energy of moving particle is given by

$$E = \frac{1}{2} mv^2$$

multiply m by R.H.S

we can also write this eqn in below form

$$E = \frac{m^2 v^2}{2m}$$

$$E = \frac{p^2}{2m} \quad \therefore \left(p = mv \;\; \therefore p^2 = m^2 v^2 \right)$$

$$\therefore p^2 = 2mE$$

$$\therefore p = \sqrt{2mE}$$

de Broglie wavelength is

$$\lambda = \frac{h}{p}$$

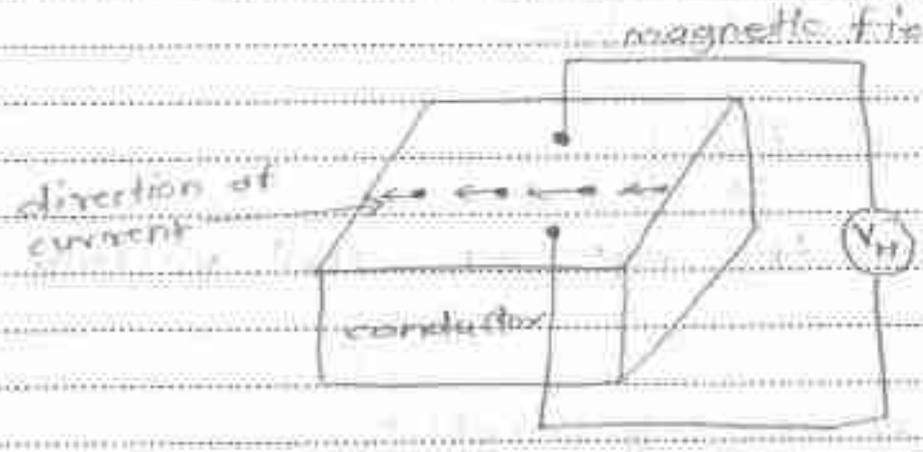
$$\therefore \lambda = \frac{h}{\sqrt{2mE}}$$

This is the expression for de Broglie wavelength for particle when it is moving with kinetic energy E.

Q.3

9) Hall effect

- When the magnetic field is applied perpendicular to the direction of current then the voltage is produce along the both magnetic field and current(I) this is called as Hall effect



- Current produced in magnetic field is eE_H
- magnetic field is BeV

$$\therefore eE_H = BeV \quad \text{---} (1)$$

$$E_H = BV \quad \text{---} (2)$$

The current eqn is

$$I = neVA$$

$$\therefore V = \frac{I}{neA}$$

put the value of V in eqn (2)

$$E_H = \frac{BI}{neA}$$

$$E_H = \frac{V_H}{d}$$

$$\therefore \frac{V_H}{d} = \frac{BI}{neA}$$

$$V_H = \frac{BId}{neA}$$

$$\therefore V_H = \frac{BI}{new} \quad \text{---} \quad (A = w \times d)$$

6

$\therefore$ Hall coefficient is

$$\Rightarrow \boxed{R_H = \frac{1}{ne}}$$

$$\Rightarrow \boxed{\therefore V_H = R_H \frac{BI}{w}}$$

This is the eqn of Hall voltage

b) Fermi level in semiconductor

- Highest energy occupied by electron is called as fermi level.

Position of fermi level in P type

6

Position of fermi level in N type

c) * Advantages of solar cell
- It is non polluting, environment fiendly
- High energy production in less time

* Application
- It is used in ~~satellite~~ satellites
- It is used in aerospace.
- It is used in water heaters like solar water heater

d) Given:-

$w = 1\ mm$

$R_H = 6 \times 10^{-7}\ m^3/C$

$B = 1.5\ T$

$I = 200\ A$

$$V_H = R_H \frac{BI}{w}$$

$$= \frac{6 \times 10^{-7} \times 1.5 \times 200}{1.6 \times 10^{-19} \times 1}$$

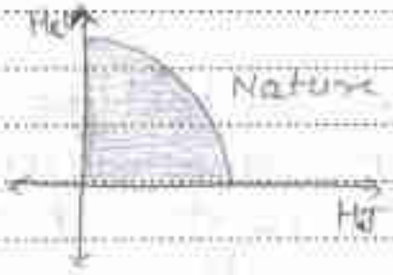
$$\boxed{V_H = 1.8 \times 10^{3}\ V}$$

Q.5

a)

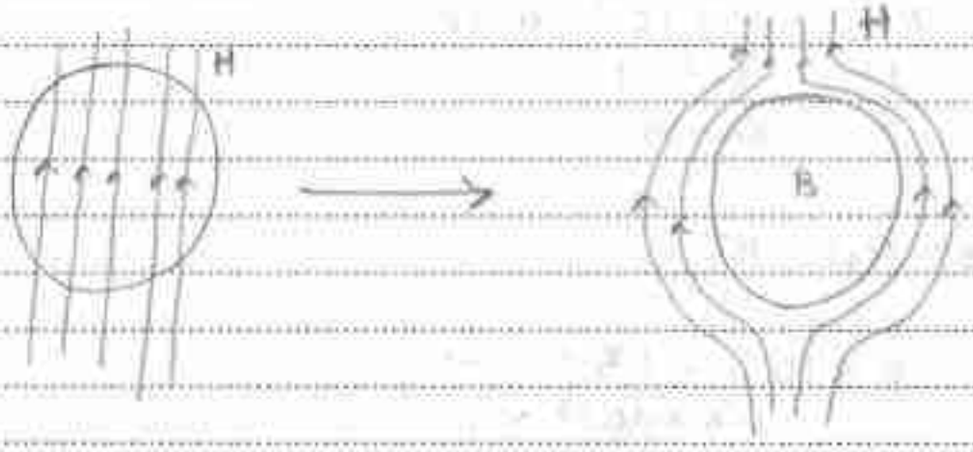
→ i) Critical magnetic field

- When the sufficient voltage is required to destroy superconductivity and restore to its original position.



$$H_c(0) = H_c(T)\left[1 - \left(\frac{T}{T_c}\right)^2\right]$$

ii) Meissner effect



- When the semiconductor is cooled to its critical temperature(T_c) and magnetic field is applied to the conductor then magnetic field passed outside from the conductor this phenomenon is called as meissner effect.

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Verified all entries & found correct

Jr.Supervisor's Name, Signature & Date

Seat No.(In figures) F1904403 19 Centre : 4044

Seat No.(in words) F- one nine zero four four zero three one nine

Day & Date : Wednesday 12-7-23 Examination :

Subject : physics Section :

Course / Paper No. Medium of Answer : English

Main Ans. Book + No. of Supplements 1 = Total

Q. No	1	2	3	4	5	6	7	8	9	10	11	12	Total	Signature of Examiner
Marks														
Q. No	1	2	3	4	5	6	7	8	9	10	11	12	Total	Signature of Examiner
Marks														

Use of Coloured pencil or ink is strictly prohibited except in case of Diagrams and Sketches
(Write on both sides and start writing on this page)

Q5

b) i) Magnetic field strength (H)

- When the magnitude is expressed by North pole and south pole at any point in magnetic field this is called the strength of magnetic field.

unit - Amperturns/m

$H = \frac{\text{Amperturns}}{\text{length in m}}$

ii) Magnetic induction or Flux density (B)

- It is the no. of lines per unit cross sectional area.

$B = \frac{\phi}{A}$

unit - wb/m^2

- It is also defined as flux per unit area.

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iii) Magnetic permeability (μ)

- It is defined as the ratio of magne induction to magnetic field strength

$$\mu = \frac{B}{H}$$

unit - ampere turns

8

relation : $\mu = \frac{B}{H}$

c) Given :-

$H_c(0) = 8 \times 10^5$ A/m

$H_c(T) = 4 \times 10^4$ A/m

$T_c = 7.26$ K

$T = ?$

$$H_c(0) = H_c(T)\left[1 - \left(\frac{T}{T_c}\right)^2\right]$$

$$8 \times 10^5 = 4 \times 10^4 \left[1 - \left(\frac{T}{7.26}\right)^2\right]$$

8

$$\frac{8 \times 10^5}{4 \times 10^4} = 1 - \frac{T^2}{1.2 \times 10^{36}}$$

$$T = 0.5\,K$$

d) Super conductivity

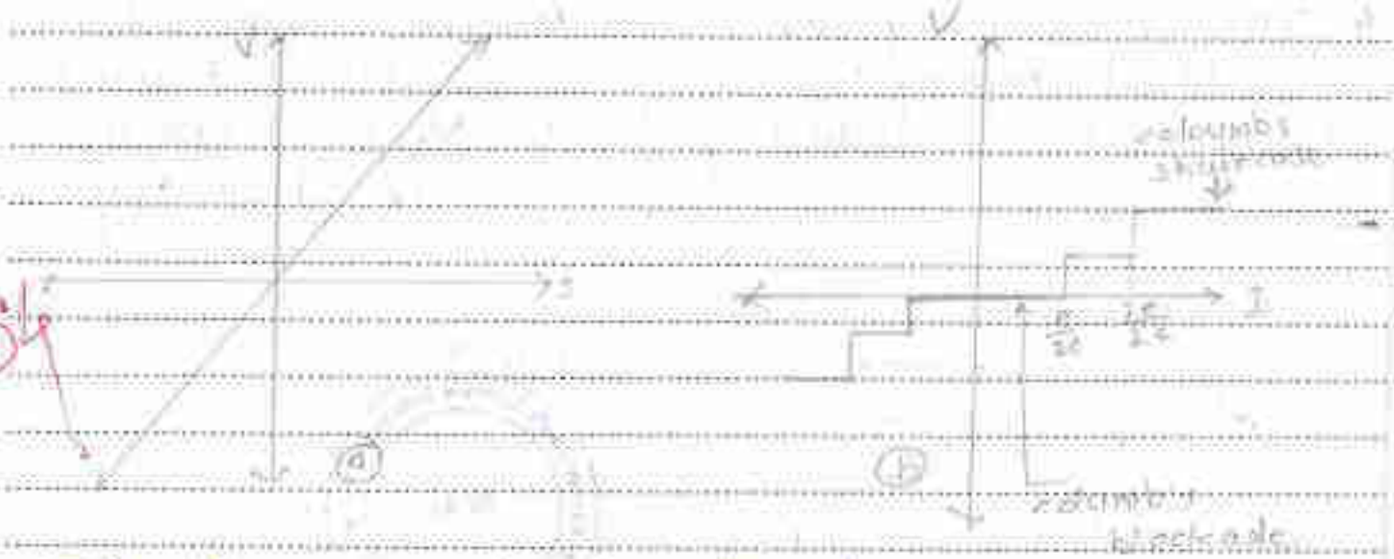
- It is defined as the decrease the resistiv of material and increase the conductivity

Type I	Type - II
1) These are diamagnetic in nature	1) These are not diamagnetic in nature
2) This follows meissnner effect	2) This doesn't follow meissnner effect
3) The critical temperature is very low i.e $0.1\,T$	3) Critical temperature is very high i.e $0.1 << T$
4) This have only one critical temp. T_c	4) These have two critical temp. T_c
5) low use in industry	5) Very high use in industry

Q.7

a) Electrical properties

- Electrical resistivity depends upon the grain size
- If the particle is small then the resistivity is high.
- It the ~~current~~ voltage is applied to bulk material then it obey ohm's law ant the nano-particles varries current and voltage both.

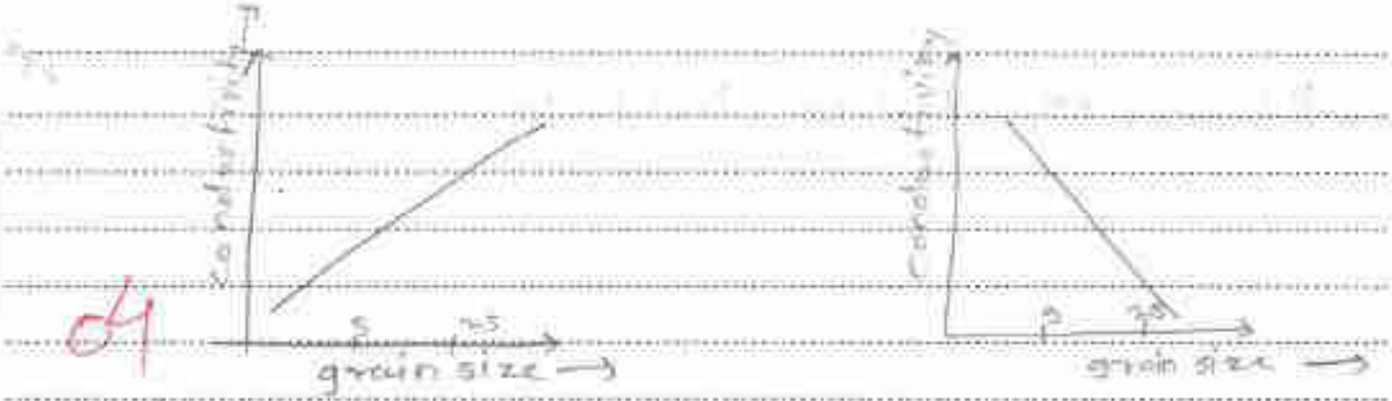


~~If the current is at~~

- If the current flowing through the particle the electrons moves if no current is flowing then no electrons flow.
- Columbs blockde is shown in fig (b) at the zero current and columb stain case is also shown.

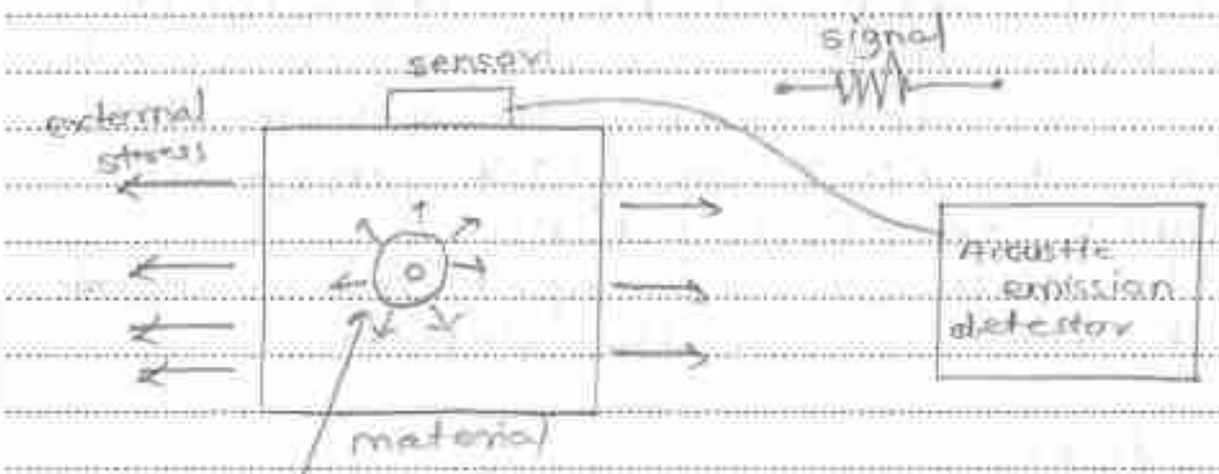
b) Mechanical properties

- The mechanical properties like hardness, ductility and elasticity are depends upon the imperfection and impurities in material.
- If the impurities are less in the material then it is said to be pure material.
- If voltage is applied to bulk material then conductivity varries with grain size in nanomaterials when grain size is decreases then conductivity increases



c) Acoustic emission technique

- Acoustic emission technique is the non-destructive ~~test~~ technique which is used to finding and locating defect in component (material)

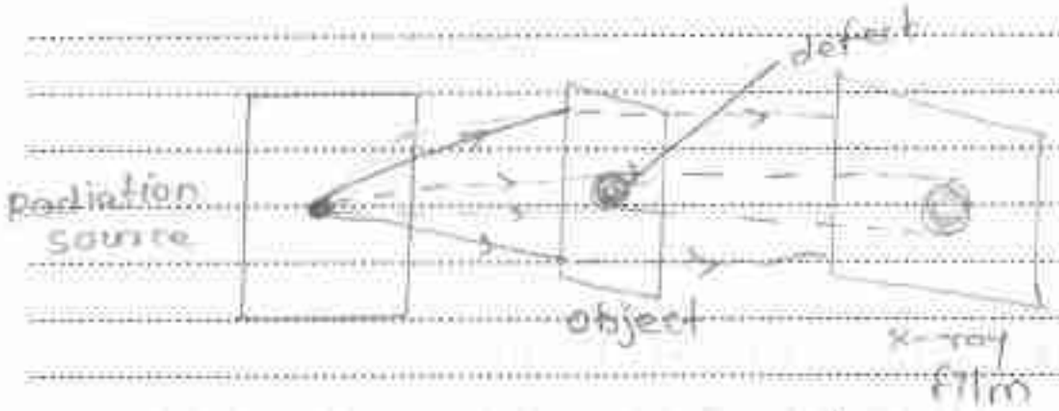


- When the pressure is appied on material then the ~~the~~ material starts to deformation
- Cause of pressure and deformation the waves are emitted and passed out to the crack this waves are called acoustic emission waves
- This waves are detected by sensor and this information in signal send to the Acoustic emission detector

Applications:

- This is used in welding and soldering

d) Radiography testing technique



- When the x-ray or γ-ray's are passed by radiation source on the object.
- This rays are partially absorbed or partially reflected from the object.
- But when there is a defect in object then rays have small thickness in the region of defect and large image is obtained on x-ray film.
- By the help of x-ray film we can detect the size of the defect.

Applications:-

1) By using this technique we can detect crack, hole, cavity in object.

b) $f = 130\ KHz$

$t = 1.69\ s$

$V = 5900\ m/s$

$$\lambda = \frac{V}{\mu}$$

$$= \frac{5900}{130}$$

$$\boxed{\lambda = 45.38}$$

SCOE, FE PRELIMINARY EXAMINATION 2022-23 (SEM-II)

COURSE- FE 2019 PATTERN BLOCK NO- 01

SUBJECT - ENGINEERING PHYSICS (107002) DATE - 12/07/2023

ATTENDANCE SHEET

Sr. No.	Seat No.	Name of Students	Sign	Marks
1	F190440006	ALHAT CHINMAY PRAMOD		28
2	F190440008	AMBRE SWAPNIL DEEPAK		26
3	F190440012	AYUSH BAG		09
4	F190440014	BACCHE VAISHNAVI CHANDRAKANT		31
5	F190440018	BAGADI CHANCHAL BABU	Ab	
6	F190440022	BARI AYUSH SUNIL		00
7	F190440027	BHAGAT KSHITIJA KUNDLIK		05
8	F190440029	BHANGE DIVALI ACHYUT		16
9	F190440032	BIDKAR DURVESH DINESH		04
10	F190440043	BIRADAR ANJALI RAMESH		26
11	F190440046	BISWAS BUDHAKHA BASUDEV		14
12	F190440047	BOBADE AARYA MURLIDHAR		10
13	F190440048	BOCHARE AISHWARYA SANJAY		34
14	F190440050	BOROLE SAKSHI GHANASHYAMDAS		35
15	F190440058	CHAUDHARY VAISHNAVI BALISTER		40
16	F190440059	CHAUHAN SUMERSINGH JAGANNATHSINGH		30
17	F190440061	CHAVAN VISHAL PRAVIN		29
18	F190440063	CHELEKAR MAHESH RAJARAM		31
19	F190440065	CHORAGE SAYALI SANJAY		22
20	F190440068	DEOKAR SNEHA SURESH		40
21	F190440070	DESHMUKH HARSHAL DILIP		00
22	F190440071	DESHMUKH JANHAVI DILIPRAO	Ab	
23	F190440074	DHANGAR PAVAN SANTOSH	Ab	
24	F190440075	DHANOKAR SAKSHI JAYDEO		25
25	F190440076	DHOLE ADITYA SANJAY		13
26	F190440078	DHONADE SAPNA SUBHASH		41
27	F190440084	DIVEKAR SANIKA SUNIL		26
28	F190440091	GADE KARTIK ARUN		06
29	F190440093	GADHAVE PREM RAJENDRA		07
30	F190440094	GAIGOLE GAURI NANDKISHOR		26
31	F190440095	GAIKAR ABHISHEK ROHIDAS		14
32	F190440097	GAIKWAD POOJA RAM		38
33	[illegible]	[illegible]	AL	

SCOE, FE PRELIMINARY EXAMINATION 2022-23 (SEM-II)

COURSE- FE 2019 PATTERN BLOCK NO- 2

SUBJECT - ENGINEERING PHYSICS (107002) DATE - 12/07/2023

ATTENDANCE SHEET

Sr. No.	Seat No.	Name of Students	Sign	Marks
1	F190440112	GOLE ATHARV BHARAT		11
2	F190440118	HAJARE SANKET SADASHIV		34
3	F190440122	HARSHAL VILAS PAWAR		39
4	F190440125	HINGE KSHITIJ GOKUL		27
5	F190440128	HUNASNALE SNEHA RAJKUMAR		25
6	F190440130	INGALE MOTIRAM BABARAO		20
7	F190440147	JOSHI SUJAL ANIL		27
8	F190440148	KAD SAI SANTOSH		11
9	F190440149	KADAM RUTURAJ RAMESH		02
10	F190440154	KAKADE ADITYA DATTATRAYA		25
11	F190440156	KALANGE PRATHAMESH VIKAS		16
12	F190440157	KALE GAURAV SANJAY		18
13	F190440160	KAMBLE ISHA RAJESH		23
14	F190440161	KANASE ATHARVA JEETENDRA		00
15	F190440165	KARANDE JAY ANAND		24
16	F190440167	KARGUDE SANSKRUTI SHIVAJI		43
17	F190440173	KHAIRE SIDDHI RAJENDRA		28
18	F190440175	KHANDE RAMESHWAR SANJAY		24
19	F190440177	KHARCHE JITENDRA GANESH		06
20	F190440186	KOTHAWALE MANISH MAHESH		00
21	F190440190	KURLEKAR ATHARVA SATISH		31
22	F190440192	LAKHMALE ASHISH ANANT		30
23	F190440195	MANDADE MUKIT SANTOSH		04
24	F190440196	MANE SNEHAL BABAN		22 15
25	F190440197	MARATHE HRISHIKESH SANTOSH		04
26	F190440201	MOHITE APEKSHA DATTATRAYA		05
27	F190440208	MURTHY KRISHNA RAVIKIRAN		00
28	F190440209	NAGARGOJE ABHISHEK DEVIDAS		AB
29	F190440211	NAIK VIKAS MALKHAN		24
30	F190440214	NAYAKOTI LAXMI BAGANTEPPA		27
31	F190440215	NICHIT SUVASH KACHARU		35
32	F190440218	OM PRATAP GAIDEKAR		22

SCOE, FE PRELIMINARY EXAMINATION 2022-23 (SEM-II)

COURSE- FE 2019 PATTERN BLOCK NO- 03

SUBJECT - ENGINEERING PHYSICS (107002) DATE - 12/07/2023

ATTENDANCE SHEET

Sr. No.	Seat No.	Name of Students	Sign	Marks
1	F190440221	PADWAL SAHIL DATTATRAY		13
2	F190440224	PANDEY HEMANGI UMESHCHANDRA		AB
3	F19044022[illegible]	PASHILKAR TANMAY KIRAN		15
4	F190440228	PATIL AYUSH SANJAY		02
5	F190440231	PATIL OMKAR JYOTIBA		15
6	F190440235	PATIL SAHILKUMAR ANANDRAO		01
7	F190440236	PATIL SHREYA SANTOSH		13
8	F190440237	PATOLE SUJAL NAVNATH		02
9	F190440239	PAWADE SAURABH VIVEK		14
10	F190440242	PAWAR MANSI NAVNEET		15
11	F190440245	PAWAR RISHABH RAJENDRA		00
12	F190440246	PHALKE UDAY NAVNATH		22
13	F190440252	PRITHVIRAJ SACHIN YADAV		22
14	F190440254	RAIKAR SAKSHI PRASHANT		17
15	F190440271	SAMRUDDHI MOHAN [illegible]HOR		17
16	F190440274	SARAWADE ROHIT [illegible]VIL		05
17	F190440275	SARTAPE [illegible]SHKUMAR VINAYAK		22
18	F190440277	SATAV MOKSHNATH PRAMOD		AB
19	F190440281	SAWANT SUSHANT HANUMANT		12
20	F190440282	SAYYAD SAMEER [illegible]UR		30
21	F190440284	SEWLIKAR HARSH[illegible]DEEP		35
22	F190440288	SHARMA AKSHAY [illegible]OM		00
23	F190440290	SHELKE AAKASH [illegible]ADHAR		01
24	F190440291	SHELKE [illegible]AR SHANJAY		11
25	F190440293	SHEWALE [illegible]AL [illegible]NDRA		18
26	F190440302	SHITOLE VAIBHAV [illegible]AMDAS		17
27	F190440310	SINGH SANDEEP [illegible]		00
28	F190440312	SOMASE ADITYA [illegible]RANG		20
29	F190440313	SONAWANE DIVYA [illegible]SH		21
30	F190440318	SURYAWANSHI A[illegible] TANAJI		15
31	F190440319	SURYAWANSHI [illegible] DILIP		58
32	F190440320	SURYAWANSHI [illegible]VATI SAMADHAN		12

SCOE, FE PRELIMINARY EXAMINATION 2022-23 (SEM-II)

COURSE- FE 2019 PATTERN BLOCK NO:04

SUBJECT - ENGINEERING PHYSICS (107002) DATE - 12/07/2023

ATTENDANCE SHEET

Sr. No.	Seat No	Name of Students	Sign	Marks
1	F190440325	TAMBE ARJUN ASHOK		01
2	F190440328	TARHALE RAJESHWAR GAJANAN		09
3	F190440333	THAKUR PRINCE[illegible]ISH		24
4	F190440336	THORAWADE ABHIMANYU TANAJI		22
5	F190440340	TUPE SHWETA [illegible]VNATH		40
6	F190440341	TURE SHAHU SANJAY		00
7	F190440342	VAIDYA SUBAH[illegible]PATRY	S.D. Vaidya	09
8	F190440344	VARE PRATH[illegible]		01
9	F190440345	VARE SHRU[illegible]ANKU		05
10	F190440349	VISHAL BAP[illegible]ODE		21
11	F190440352	WAGHMARE[illegible]RAVAN		19
12	F190440354	WALUNJ NI[illegible]N		25
13	F190440357	WAROLE S[illegible]NAKAR		41
14	F190440361	YASH MUK[illegible]ALE		24
15	F190440364	YEDKE YO[illegible]RUBA		37
16	F190440366	YEOLE SHR[illegible]		19

PRESENT	:- 16
ABSENT	:- 00
TOTAL	:- 16

NO OF FAILED STUDENTS :-

NO OF PASSED STUDENTS :-

Prof. H.D. Dabhade

NAME & SIGN OF IR SUPERVISOR

NAME & SIGN OF EXAMINAR

SEAL

C.A.Y.M. Education Trust's

SIDDHANT COLLEGE OF ENGINEERING,

(Approved by AICTE, Recognized by Government of Maharashtra and Affiliated to University of Pune)

At. Post - Sudumbare, Tal. - Maval, Dist. - Pune, PIN - 412 109

☎ 02114 - 661901 Tele Fax No. 02114 - 661902

website :- www.siddhantcoe.in E-mail: engineeringprincipal@gmail.com

Shri R. S. Yadav
President

Dr. L. V. Kamble
Principal

Date: - 03/07/2023

NOTICE

All FE students are hereby informed that the Prelim Examination of SEM- II have been scheduled from **Wednesday, 12/07/2023 to Tuesday 18/07/2023.**The question paper pattern will be as per SPPU norms. All students are instructed that attendance is compulsory for the examination. The detailed schedule will be displayed on the notice board.

SEAL

Dr. U.V. Shinde
FE-HOD

Shinde U. V.
First Year Co-ordinator
Siddhant College of Engineering,
Sudumbare, Tal Maval, Pune - 412 109.

SIDDHANT COLLEGE OF ENGINEERING

F.E. PRELIMINARY EXAMINATION

SEMESTER - II A.Y.2022-23

TIMETABLE

Time:-10.00 AM To 12.30 PM

Day & Date	Paper Code	Subject
Wednesday 12-07-2023	107009	ENGINEERING CHEMISTRY
Wednesday 12-07-2023	107002	ENGINEERING PHYSICS
Thursday 13-07-2023	103004	BASIC ELECTRICAL ENGINEERING
Thursday 13-07-2023	104010	BASIC ELECTRONICS ENGINEERING
Friday 14-07-2023	110005	PROGRAMMING AND PROBLEM SOLVING
Friday 14-07-2023	101011	ENGINEERING MECHANICS
Monday 17-07-2023	107008	ENGINEERING MATHEMATICS-II
Tuesday 18-07-2023	102012	ENGINEERING GRAPHICS

Date: 07/07/2023

Prof. R.S.More
Exam-coordinator

Dr.U.V.Shinde
HOD

Shinde U. V.
First Year Co-ordinator
Siddhant College of Engineering,
Sudumbare, Tal-Maval, Pune -412 109.

Dr.L.V.Kamble
Principal

SIDDHANT COLLEGE OF ENGINEERING

F.E. PRELIMINARY EXAMINATION

SEMESTER – II A.Y 2022-23

PROGRAMME OF F.E. (2019 COURSE) (CREDIT SYSTEM)

INSTRUCTIONS FOR CANDIDATES

- Candidates are required to be present at the examination center, THIRTY MINUTES before the stipulated time.
- Candidates are forbidden from taking any material into the examination hall that can be treated as a malpractice.
- Candidates are requested to see the Notice Board at their center of examination regularly for changes if any that may be notified later in the program.
- No request shall be granted for change in time or date for the University Examination on any ground.
- Candidates are requested to note the Day, Date and Time of Paper.
- Candidates are permitted to use stencils at the time of examination.
- The exchanges of side-rules, drawing instruments of other materials used in the examination hall is not permitted at the time of examination. Candidates must bring their own instruments and will not be allowed to borrow from each other under any circumstances.
- Use of non-programmable battery operated electronic pocket size Calculator is allowed. The exchange of Calculators is not allowed. Electronics Devices including mobile are not allowed at the time of examination.
- The written examination will be conducted in the following order.

SEAL

SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE

FE PRELIMINARY EXAMINATION 2022-23

A.Y. 2022-23 SEMESTER - II

JOUNIOR SUPERVISOR DUTY CHART

Sr. No.	Name of Faculty	12/7/2023	13/07/2023	14/07/2023	17/07/2023	18/07/2023	Total	SIGN
		10:00 AM - 12:30 PM						
1	Prof. Avinash Takale	BLOCK NO.01			BLOCK NO.04	BLOCK NO.06	3	
2	Prof. Deepak Kute	-	BLOCK NO.01		BLOCK NO.02	BLOCK NO.03	3	
3	Prof. Dipali Bajare	BLOCK NO.02		BLOCK NO.04	BLOCK NO.03	BLOCK NO.07	4	
4	Prof. Harshada Dabhade		BLOCK NO.02	BLOCK NO.03	BLOCK NO.01	BLOCK NO.04	4	
5	Prof.Dhanshree Chaudhari		BLOCK NO.03	BLOCK NO.02	BLOCK NO.06	BLOCK NO.05	4	
6	Prof. Santosh Karle	BLOCK NO.04	02	BLOCK NO.01	BLOCK NO.07	BLOCK NO.02	4	
7	Prof. Nilima Patil	BLOCK NO.03	BLOCK NO.04	03	BLOCK NO.05	BLOCK NO.01	4	

Prof.R.S.More
INT. SENIOR SUPERVISOR

Total No. of Questions: 9]

Seat No.

107002

Total No. of Pages: 4

SIDDHANT COLLEGE OF ENGINEERING
F.E. PRELIMS EXAMINATION
ENGINEERING PHYSICS
(2019 PATTERN) (Semester-II)

[Time: 2 Hour 30 Minutes] *[Maximum Marks: 70]*

Instructions to the candidates:

1) *Attempt Q. No. 2 or 3, Q. No. 4 or 5, Q. No. 6 or 7, Q. No. 8 or 9*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right indicate full marks.*
4) *Assume suitable data, if necessary.*

Q1. Multiple choice questions: *[10]*

1) The wavelength λ associated with a particle of mass m moving with velocity v is given by

a) h/ mv b) mv/ h c) hv/ m d) m/hv

2) A solar cell work on the principle of

a) Photoelastic effect b) Photoluminescence effect
c) Photovoltaic effect d) Photoconductive effect.

3) Addition of pentavalent impurity to a semiconductor creates many .....

a) free electrons b) holes c) valence electrons d) bound electrons

4) In an intrinsic semiconductor, the number of free electrons .....

a) equals the number of holes b) is greater than the number of holes

c) is less than the number of holes d) none of the above

5) In nanomaterials, which of the following statement is correct

a) Surface to volume ratio is very small
b) Surface to volume ratio is large
c) Surface to volume ratio is 1 (unity)
d) None of the above

6) The magnetic lines of force cannot penetrate the body of a superconductor, a phenomenon is known as

a) Isotopic effect b) BCS theory c) Meissner effect d) London theory

7) The transition temperature of mercury is—

a) 7.5 K b) 12 K c) 4.8 K d) 4.2 K

8) The critical temperature is that temperature where

a) the resistivity of a superconducting metal drops to zero

b) the current flowing through a superconductor is minimum

c) the magnetic field inside a superconductor becomes constant

d) none of these

9) The temperature at which the conductivity of material becomes infinite is called....

a) Critical temperature b) Absolute temperature
c) Mean temperature d) Crystallization temperature

10) The maximum current that can be passed through a superconductor is called....

a) Supercurrent b) Optimum current c) Critical current d) None

Q2. a) Derive an equation for energy of a particle enclosed in 1D rigid box or in an infinite potential well. [6]

b) State and explain Heisenberg's uncertainty principle. [5]

c) Calculate de Broglie wavelength of electron having kinetic energy 1KeV [4]

OR

Q3. a) Derive Schrodinger's time independent wave equation. [6]

b) State the de Broglie hypothesis and explain any three properties of matter waves. [5]

c) Lowest energy of an electron trapped in potential well is 38 eV. Calculate the width of well in A.V. [Given : Mass of electron 9.1 × 10-31 kg, plank constant 6.63 × 10-34 J-s, charge on e – 1.6 × 10-19 C]. [4]

Q4. a) Explain Hall effect with figure. Derive the equation of Hall voltage and Hall coefficient. [6]

b) A copper strip 2.0 m wide, 1.0 mm thick is placed in a magnetic field of 1.5T. If a current of 200 A is set up in the strip, calculate the Hall voltage that appears across the strip. Assume RH = 8 × 10-7 m3/C. [5]

c) State Hall effect. Derive an equation of Hall voltage. [4]

OR

Q5. a) Using Fermi Dirac probability distribution function, derive an expression for the position of Fermi energy level in the intrinsic semiconductor. [6]

b) What is fermi level in a semiconductor? With the neat labelled diagram, draw the position of fermi level in N Type & P Type semiconductor at 0° K. [5]

c) Calculate the mobility of charge carriers in doped silicon whose conductivity is 100 per .m and the Hall coefficient is 3.6 × 10-4 m3/c.3 [4]

Q6. a) What are SQUID ? Explain any two applications of SQUID. [6]

b) Explain DC and AC Josephson effect with diagram. [5]

c) The transition temperature of lead is 7.2 K. However, at 5 K it loses the superconducting property if subjected to magnetic field of 3.3 × 104 A/m. Find the maximum value of H which will allow the metal to retain its super conductivity at 0 K. [4]

OR

Q7. a) Define superconductivity with resistance Vs temperature graph and example. Explain zero electrical resistance in super conductivity. [6]

b) Distinguish between diamagnetism, paramagnetism and ferromagnetism (two points each). [5]

c) Define with unit : (i) Magnetic field strength (H) (ii) Magnetization(M) [4]

Q8. a) Explain electrical and mechanical properties of nanoparticles. [6]

b) An ultrasonic pulse of frequency 130 kHz is sent through a block of steel. The echo pulse is received after 1.695 s. If velocity of ultrasonic in steel is 5900 m/s, calculate the thickness of the steel block and wavelength of the pulse. [5]

c) Explain in brief how acoustic emission technique is used in non-destructive testing [4]

OR

Q9. a) What is non-destructive testing ? State types of non-destructive techniques ? Explain ultrasonic testing technique for flaw detection. [6]

b) What is nanotechnology ? Explain applications of nanotechnology in electronic field. [5]

c) What are nanoparticles? What is nanotechnology? Explain the optical property of nanoparticle. [4]

Choudhari Atarsingh Yadav Memorial Education Trust's

SIDDHANT COLLEGE OF ENGINEERING

Verified all entries & found correct
Jr.Supervisor's Name, Signature & Date

v good 60/60

Seat No.(in figures) F190440108 Centre :

Seat No.(in words) F one nine zero four four zero one zero eight

Day & Date : 01- March - 2023 Examination : prelims

Subject : physics Section : C

Course / Paper No. 10202 Medium of Answer : English

Main Ans. Book + No. of Supplements 1+4 = Total 5

Q. No	1	2	3	4	5	6	7	8	9	10	11	12	Total	Signature of Examiner
Marks	NC		11	15		15		11	—	—	—	—	60	
Q. No	1	2	3	4	5	6	7	8	9	10	11	12	Total	Signature of Examiner
Marks														

Use of Coloured pencil or ink is strictly prohibited except in case of Diagrams and Sketches
(Write on both sides and start writing on this page)

Q1]

1]
=> a) h/mv

2]
=> c) photovoltaic effect

3]
=> c) Valence electrons

4]
=> a) equals the number of holes

5]
=> a) surface to volume ratio is very small

6]

⇒ c) meissner effect

7]

⇒ d) 4.2 K

8]

⇒ a) the resistivity of temp superconducting metal drops to zero

9]

⇒ b) absolute temperature

10]

⇒ a) supercurrent

9.

⇒

Q2]

a)

⇒ Schradingers wave time independent wave equation.

The general equation for wave is given by the.

$$\frac{\partial^2 \psi}{\partial x^2} = \frac{1}{v^2}\left(\frac{\partial^2 \psi}{\partial t^2}\right)$$

for the wave equation with co-ordinates of x, y, z and 3 dimensional object it is given by.

$$\frac{\partial^2 \psi}{\partial x^2} + \frac{\partial^2 \psi}{\partial y^2} + \frac{\partial^2 \psi}{\partial z^2} = \frac{1}{v^2}\left(\frac{\partial^2 \psi}{\partial t^2}\right)$$

$$\left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2 \psi}{\partial y^2} + \frac{\partial^2 \psi}{\partial z^2}\right)\psi = \frac{1}{v^2}\left(\frac{\partial^2 \psi}{\partial t^2}\right)$$

where the general derived equation also can be given by

$$\Delta \psi(x,y,z) = \frac{1}{v^2}\left(\frac{\partial^2 \psi}{\partial t^2}\right)$$

$$\psi(x,y,z) = \psi_0 e^{-i\omega t}.$$

$$\frac{\partial \psi}{\partial t} = \psi_0 (e^{-i\omega t}) \quad \text{---} *$$

Differentiating the above eqn with respect to t we get

$$\frac{\partial \psi}{\partial t} = \psi_0 \, i\omega \, (e^{-i\omega t}) \quad \text{---} ①$$

Again differentiating the eqn ① w.r.t:

$$\frac{\partial^2 \psi}{\partial t^2} = \psi_0 (-i\omega)(-i\omega) e^{-i\omega t}$$

h)

$$= \psi_0 (-1)^2 (i\omega)^2 e^{-i\omega t}$$

$$= \psi_0 (1)(\omega)^2 e^{-i\omega t}$$

$$= (\omega)^2 (\psi) \quad \text{— from — (x)}$$

g)

b)

De Broglie Hypothesis :- i) In 1911 De Broglie proposed that the wave has two nature one is particle nature and matter nature.

where the wave has its particle nature associated with it.

ii) He also state that behaviour of wave is not uniform.

iii) It was derived By Einsteins postulate

$$E = mc^2 \quad \text{— (i)}$$

where

$$E = h\nu \quad \text{— (ii)}$$

From (i) and (ii):

$$h\nu = mc^2.$$

$\lambda = \frac{h}{mc^2}$

$\lambda = \frac{h}{mc^2}$ equating eqn (i) and (ii)

$\lambda = \frac{h}{mv}$ where $c = v^2$.

$\therefore \lambda = \frac{h}{mv}$.

The wavelength associated with particle of mass m moving with velocity is given by h/mv

where

m = mass of electron

h = planks constant

v = velocity of electron.

c].

$E = 38\ eV$

$m = 9.1 \times 10^{-31}$

$h = 6.63 \times 10^{-34}$

$e = 1.6 \times 10^{-19}$.

$E = \frac{nh^2}{8mL^2}$.

$L^2 = \frac{nh^2}{8mE}$

$L^2 = \frac{1 \times (6.63 \times 10^{-34})^2}{8 \times 9.1 \times 10^{-31} \times (38)}$

$= \frac{6.63 \times 10^{-34}}{2.766 \times 10^{-24}}$.

$L^2 = 2.396 \times 10^{-10}$

$L = 1.547 \times 10^{-5}$

Q4]

a)

⇒ Hall effect :-

i) Hall effect state that the magnetic field passing from the conductor is perpendicular to the current flowing thraigh the circuit.

ii) In 1927 Edwin Hall has found the Hall effect and given derivation for it.

magnetic field is given by.

F.B = B.e.V

when current pass it is balanced by magnetic field.

∴ The equation becomes.

E.e = B.e.V

E = B.V ——— (1)

where as

$$E = \frac{V_H}{d}$$

$$\frac{V_H}{d} = B \cdot V$$

$$V_H = dB \cdot V \quad \text{——— (x)}$$

for the Hall voltage velocity can be derived by

$$I = n e i V A$$

$$\frac{I}{n e i A} = V \quad \text{——— (xi)}$$

putting value of eqn (iii) in (ii)

$$V_H = dB \frac{I}{n e i A}$$

Here we can take nei seperate to form eqn

$$V_H = \frac{1}{nei} \cdot \frac{d \cdot BI}{A}$$

Here we get eqn for Hall voltage.

where Hall coefficient can be derived by

$$\rho = \frac{1}{nei} \quad \text{——— (xi)}$$

putting value in eqn.

$$V_H = \rho \cdot \frac{d \cdot BI}{A}$$

$$V_H = \frac{1}{nei} \quad \frac{d \cdot BI}{A}$$

Hall coefficient $(\rho) = \frac{1}{nei}$

Q4]

9).

=> Hall effect :-

i) Hall effect state that the magnetic field passing from the conductor is perpendicular to the current flowing through the circuit.

ii) In 1927 Edwin Hall has found the Hall effect and given derivation for it.

magnetic field is given by.

$F_B = B.e.V$

when current pass it is balanced by magnetic field

∴ the equation becomes

$E.e = B.e.V$

$E = B.V$ ——— (1)

8)

⇒

$w = 2.0\ mm$

$t = 1.0\ mm$

$B = 1.5\ T$

$I = 200\ A$

$R_H = 6 \times 10^{-7}\ m^3/C$

$V_H = R_H \cdot \frac{I \cdot \Delta B}{A}$

$= 6 \times 10^{-7} \cdot \frac{200 \cdot 2.0 \times 1.5}{}$

$= 3.6 \times 10^{-4}$

9)

⇒

Hall effect :-

when the magnetic field is applied on the conductor the magnetic lines are perpendicular to the flow of current.

Working :-

when the current pass through conductor the electrons flow in the one direction in the straight line But due the disturbance in the way of electrons they get seperate where the positive electrons and holes get shifted towards the edges of conductor.

Here the voltmeter is connected parallel to the current flows at ends of the conductor.

SAVITRIBAI PHULE PUNE UNIVERSITY

Supplement	JL	Verified all entries & found correct Jr. Supervisor's Name, Signature & Date

Seat No. (in figures) F190440108 Centre :

Seat No. (in words) F one nine zero four four zero one zero eight

Day & Date : Tuesday 1-3-23 Examination : prelim

Subject : physics Section :

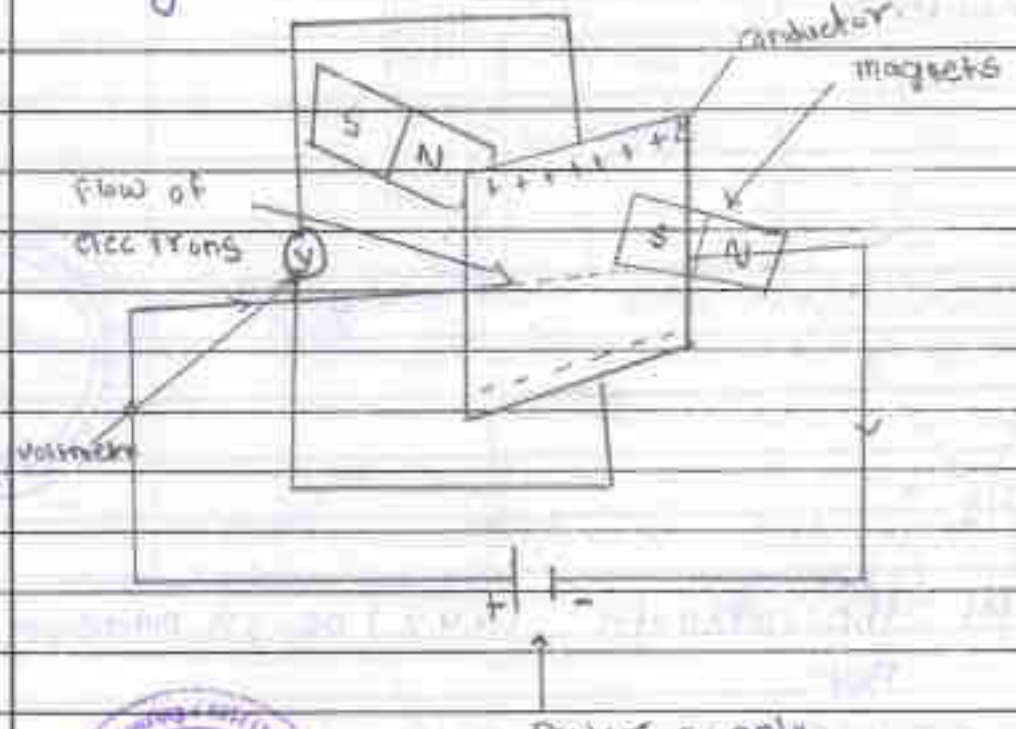
Course/Paper No. Medium of Answer:

Supplement No.: 1 = Total

Write the answer book in blue or black ink/ball pen only and use of pencils in case of diagrams & sketches.

M. P./Q. No.

Diagram :-



INSTRUCTIONS

सूचना

1. DO NOT WRITE NUMBER ANYWHERE EXCEPT AT THE PLACE PROVIDED FOR. IF SEAT NUMBER IS WRITTEN ANY WHERE ELSE IT WILL BE TREATED AS UNFAIRMEANS AND THE PERFORMANCE WILL BE TREATED AS NULL AND VOID FOR THE ENTIRE EXAMINATION.

१. नियोजित जागेशिवाय अन्यत्र आसन क्रमांक लिहू नका. अन्यत्र आसन क्रमांक लिहिल्यास ती गोष्ट अनुचित समजली जाईल आणि त्या संपूर्ण परीक्षेच्या संदर्भात परीक्षार्थी म्हणून त्यास बाद ठरविले जाईल.

2. WRITE YOUR ANSWERS IN LEGIBLE HAND. ANSWERS WRITTEN IN AN ILLEGIBLE AND UNDECIPHERABLE HAND ARE LIABLE TO BE MARKED AS ZERO.

२. उत्तरे सुवाच्य अक्षरांत असावीत. अवाचनीय आणि अनाकलनीय अक्षरांत लिहिलेल्या उत्तरांना शून्य गुण दिले जातील.

3. AN ACT OF COPYING OR OF IMPERSONATION AT AN EXAMINATION IS PUNISHABLE UNDER 'THE MAHARASHTRA PREVENTION OF MALPRACTICE AT UNIVERSITY, BOARD AND OTHER SPECIFIED EXAMINATIONS ORDINANCE, 1982'. THE ACT PASSED TO THE EFFECT.

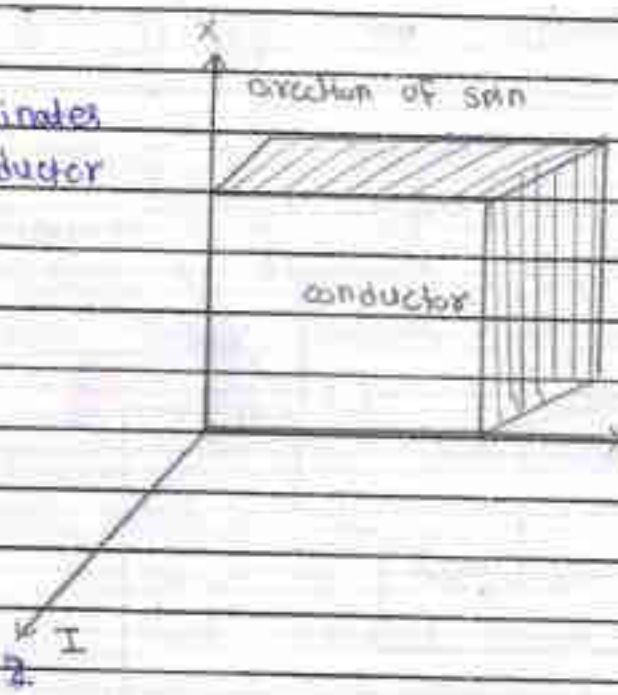
३. कॉपी करणे किंवा दुसऱ्याच्या नावावर परीक्षेस बसणे यांसारख्या कृती 'महाराष्ट्र-प्रीव्हेनशन ऑफ् मालप्रॅक्टिस ॲट युनिव्हर्सिटी, बोर्ड ॲण्ड अदर स्पेसिफाईड एक्झामिनेशन्स ऑर्डिनन्स, १९८२' त्यानुसार संमत केलेला कायदा या अन्वये दंडही असेल.

4. Hollow Craft is to be pasted on space marked with dotted line.

४. होली क्राफ्ट स्टीकर विहित जागेवर लावावी.

क्र./Q. No.

*3-D coordinates with conductor



let the coordinates (x,y,z) be 3 Dimensional Rays.

x - Represent direction of magnetic field.

y - Represent magnetic field

z - Represent Induced current.

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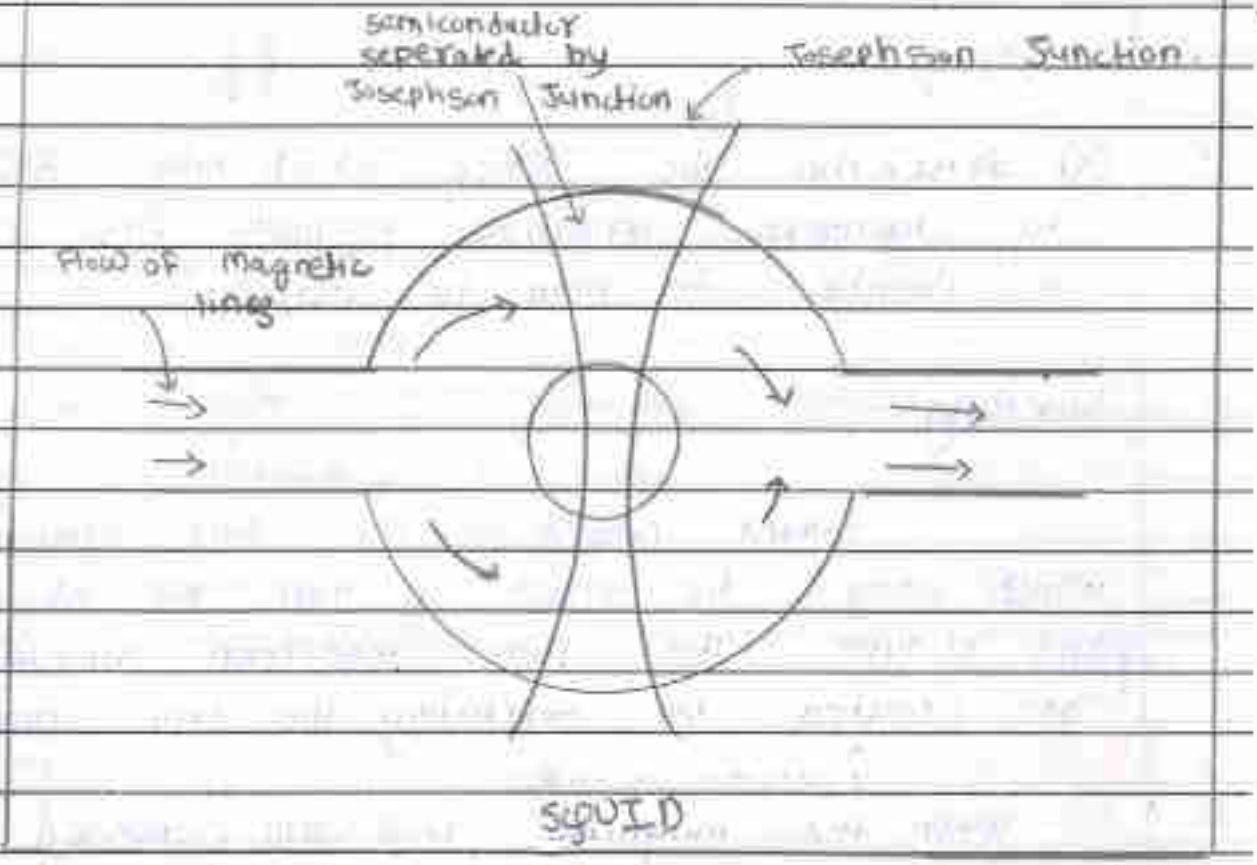
प्र. क्र./Q. No.

Q6]

a)



SQUID

① Squid is superconducting interference device which is most sensitive device known to man

② The most uncertain and smallest, sensitive magnetic field can be measured with help of it.

③ The squid consists of the two semiconductor which is seperated by two Josephson Junction.

④ The device can be configure as the magnetometer.

6

P. No./Q. No.

(5) Squid is the the device which has ability to measure sensitive magnetic field which is possible to man to detect.

Working :-

Squid consist of the two semiconductor which may be varies on their use as P and N Type. The Two Josephson Junction are created by seperating the two semiconductor

When the magnetic lines are passed through one end of squid it is Detected by the Josephson functions and they get passed From other end.

Application :-

(1) Squid is used to detect the magnetic field created inside the brain.
(2) squid to used to study the strain caused inside the rock Forming.
(3) It has ability to detect smallest magnetic field inside living organism.
(4) squid is used by suentist to study the strain and stress caused inside earth.

516/26.7.17 / 40 Lacs/267/A4/Supplement 17-18

SAVITRIBAI PHULE PUNE UNIVERSITY

Supplement **JL**

Verified all entries & found correct
Relax
Jr. Supervisor's Name, Signature & Date

Seat No. (in figures) F1904108 Centre :

Seat No. (in words) F one nine zero four zero one zero eight

Day & Date : Tuesday 1-03-23 Examination : prelium

Subject : physics Section :

Course/Paper No. 107002 Medium of Answer: English

Supplement No.: 2 Total

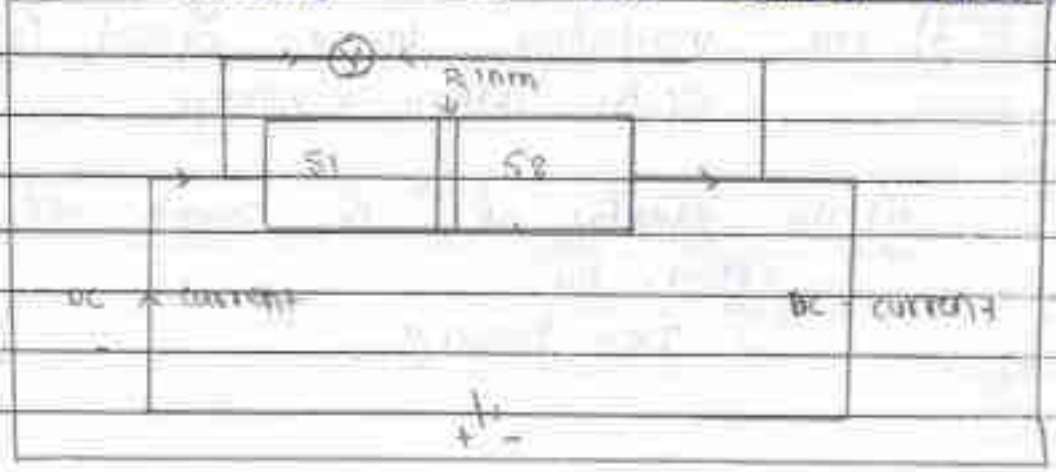
Write the answer book in blue or black ink/ball pen only and use of pencils in case of diagrams & sketches.

प्र. क्र./Q. No.

Q)

Q) - Josephson effect :-

when the one semiconductor is semiconductor is seperated by the thin insulating layer of the 3 1nm. then the DC current is supplied through it. and one voltmeter is attached to the ends of conductor.



INSTRUCTIONS

सूचना

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४. होलो क्राफ्ट स्टीकर निर्देशित जागेवर लावावी.

प्र. क्र./Q. No.			
	I semiconductor II semiconductor		
	↓ insulating layer ↓		
	— S1	S2	—

Working :-

i) when the DC current is passed to the semiconducor there is no difference in the voltage the infinity current pass through semiconductor.

ii) The insulating layer caused (c) Resistance electric current & voltage.

iii) The equation of DC Joseph effect is given by

$I_s = I_c \sin\phi$.

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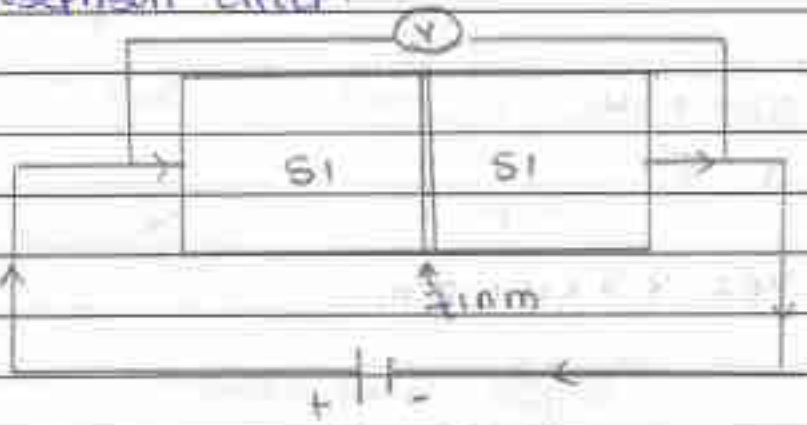
प्र. क्र./Q. No.

ii) Ac Josephson effect.



Working :- i) when the Ac current is passed through the Junction. The Radio frequency and oscillations are produced. and Infinite ammount of current get flows.

ii) The equation for Ac Josephson effect is given by.

$$R_H = \frac{2eVh}{2eVh} \cdot \frac{1}{}$$

प्र. क्र./Q. No.

c]

$T_c = 7.2K$.

$T = 5K$.

$H_c = 3.3 \times 10^4$ A/m.

$$H_c = H_0 \left(1 - \left(\frac{T}{T_c}\right)^2\right)$$

$$\frac{H_c}{\left(1 - \left(\frac{T}{T_c}\right)^2\right)} = H_0$$

$$\frac{3.3 \times 10^{-4}}{\left(1 - \left(\frac{7.2}{5}\right)^2\right)}$$

$$\frac{3.3 \times 10^{-4}}{-1.0736}$$

$$= -3.0 \times 10^{-4}$$

SAVITRIBAI PHULE PUNE UNIVERSITY

Supplement	JL	Verified all entries & found correct Jr. Supervisor's Name, Signature & Date

Seat No. (in figures) F1904401O8 Centre :

Seat No. (in words) F-one nine zero four four zero one zero eight

Day & Date : Tuesday 1-03-23 Examination :

Subject : Physics Section :

Course/Paper No. 107002 Medium of Answer: English

Supplement No.: 3 = Total

Write the answer book in blue or black ink/ball pen only and use of pencils in case of diagrams & sketches.

प्र. क्र./Q. No.	
08].	
a).	
	1) Electrical properties :-
	① When the size of bulk material is reduced to the nano size with respect to their size Electrical properties also get changed
	② The flow of electrons in the conductor is due to mobility of electrons carrier and these property work different with decreasing size.

SEAL

INSTRUCTIONS

सूचना

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4. Hollow Craft is to be pasted on space marked with dotted line.

४. होलो क्राफ्ट स्टीकर विहित जागेवर लावावी.

प्र. क्र./Q. No.	

3) E.g :

① The conductivity of ceramic increase with decrease in size.

② The conductivity of metals such as iron, phosphorus, the electrical conductivity decrease with the decrease in size.

2] Mechanical properties :-

① The material at the bulk has the properties such as elasticity, malability ductility and hardness

② The mechanical properties of metal show.

much variation with the nanosize.

(3) The lubrication property at nanosize increases. and show much variation.

4) Eg (1) The ductility of iron with nanosize decreases gradually

(2) Hardness of diamond show little variation with decrease in size.

b)

Soln

$t = 1.695\ s$

$V = 5900$.

$$T = \frac{Vt}{2}$$

$$= \frac{5900 \times 1.695}{2}$$

$$= 10000.5$$

2

$T = 5000$

$T = 5000$ mm.

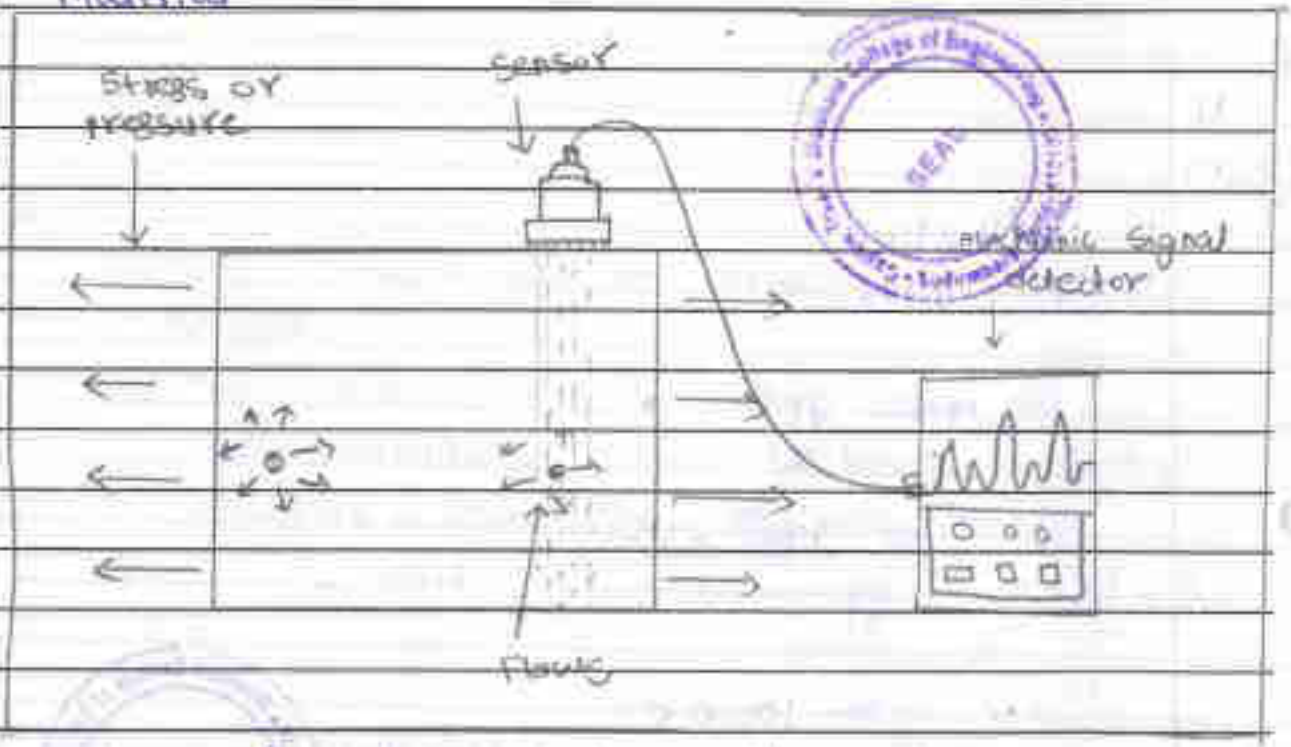
T. No./Q. No.

Q7.

=> Acoustic Emission :-

i) Acoustic Emission is the Non-destructive testing method.

ii) This method is used to detect the fault, flaws, leak and crack inside the material.



In Acoustic emission techinek the sensors is used to detect the fault in material Here elastic waves or sound waves are transmitted inside the material when the Pressure is created the fault in the Specimen disturb the Intensity of elastic wave If The crack is greater than 100 nm. the the wave get absorbed the

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Seat No. (in figures) F190440108 Centre :

Seat No. (in words) F - one nine zero four zero one zero eight

Day & Date : Tuesday 1-03-23 Examination : prelims

Subject : Physics Section :

Course/Paper No. 187002 Medium of Answer: English

Supplement No.: 4 = Total

Write the answer book in blue or black ink/ball pen only and use of pencils in case of diagrams & sketches.

Q. No.

ii) When the fault is greater than 50 nm the. it get reflected and density of the wave get change which later detected with the help of sensor.

iii) The sensor is used for analysis of the defective and low Inversity wave and then it is send to the electronic wave detection component . the change in frequency , transducer convert it in wave form. which is later monitered and defect get located

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4. Hollow Craft is to be pasted on space marked with dotted line.

४. होलो क्राफ्ट स्टीकर विहित जागेवर लावावी.

प्र. क्र./Q. No.	

* Advantages of Ground Hc emission :-

i) Quick Result can be obtained
ii) Response speed can be monitored.
iii) less noisy
iv) There is no need to deted the material again.
* Affordable.
* Disadvantages :
i) maintainance cost is high.
ii) initial cost of electronic device is high.
iii) Exact location of fault cannot be located or Traced.

SEAL

प्र./Q. No.

प्र. क्र./Q. No.	

SCOE, FE PRELIMINARY EXAMINATION 2022-23 (SEM-I)

COURSE- FE 2019 PATTERN

BLOCK NO- 01

SUBJECT - ENGINEERING PHYSICS (107002)

DATE - 01/03/2023

ATTENDANCE SHEET

Sr. No.	Seat No.	Name of Students	Sign	Marks
1	F190440056	CHARU SHARMA		56
2	F190440062	CHAVHAN ATHARVA SUDHAKAR		10
3	F190440064	CHIRAG RAMESHCHANDRA AGRAWAL		24
4	F190440066	DAHIFALE SIDDHARTH ASHOK		15
5	F190440067	DAMARE ONKAR RAJENDRA		13
6	F190440072	DEVKAR NEHA DASHARATH		15
7	F190440073	DEVRE DARSHAN DINESH		20 14
8	F190440079	DHORAŚKAR SHUBHAM DILIP		18
9	F190440081	DIKSHA POPAT GAIKWAD		42
10	F190440082	DIVATE HEMANT PARSHURAM	Ab	
11	F190440085	DOBALE VAIBHAV BABURAO		37
12	F190440086	DONUR PRAJWAL ASHOK		22
13	F190440090	GADE AVANTIKA RAJU		00
14	F190440098	GAJARE BHUPESH NITIN		07
15	F190440101	GARGOTE RAJGURU NAVANATH		38
16	F190440102	GAUR BHAGVAN AJINATH	Ab	
17	F190440104	GAVHANE RUTUJA MAHADEV		32
18	F190440106	GAWARI KESHAV GOVIND		08
19	F190440107	GAWATE SARTHAK DATTATRAY		02
20	F190440108	GHARAT ABHISHEK SAKHARAM		00
21	F190440110	GHORPADE RUTUJA RAJENDRA		15
22	F190440114	GORDE SURAJ SHARAD		08
23	F190440116	GUND HARSHAD SUNIL		50
24	F190440121	HANWANTE SAYALI SANJAY		18
25	F190440123	HEBADE MAYUR JIVAN		33 33
26	F190440124	HINGANE SAKSHI SHIVPRAKASH		18
27	F190440127	HULAWALE YASH AJIT		20
28	F190440131	JADHAO DHANASHREE GAJANAN	Ab	
29	F190440132	JADHAV ANJALI DNYANOBA		24
30	F190440133	JADHAV ASHOK BHAGWAT		32
31	F190440136	JADHAV MADHURA ANIL		38
32	F190440137	JADHAV PARTH GOPAL		16

PRESENT	:-	19
ABSENT	:-	03
TOTAL	:-	32

NO OF FAILED STUDENTS :- 19

NO OF PASSED STUDENTS :- 10

SEAL

A. P. Takale

NAME & SIGN OF JR SUPERVISOR

NAME & SIGN OF EXAMINAR

SCOE, FE PRELIMINARY EXAMINATION 2022-23 (SEM-I)

COURSE- FE 2019 PATTERN BLOCK NO. 02

SUBJECT - ENGINEERING PHYSICS (107002) DATE - 01/03/2023

ATTENDANCE SHEET

Sr. No.	Seat No.	Name of Students	Sign	Marks
1	F190440138	JADHAV PRATIKSHA KRISHNA	Jadhav	34
2	F190440141	JAGTAP PRANAV GUNESH		16
3	F190440142	JAHAGIRDAR SUHAIB NAZIM		27
4	F190440143	JAGUDE SIDDHI SHANKAR		35
5	F190440146	JAYACHE NAGESH BALAJI		40
6	F190440153	KAGANE NIKITA ASHOK		55
7	F190440158	KALE PRIYANKA SUKHDEV		50
8	F190440159	KALOKHE MRUNAL MOHAN		2.13
9	F190440163	KANEKAR NIDHI SURENDRA		39
10	F190440168	KARMALKAR NEHA YOGESH		35
11	F190440171	KEDAR ASHWINI RADHAKRUSHNA		38
12	F190440176	KHANDELOTE MEHUL SURESH		28
13	F190440181	KHILE BHARATI SARJERAO		29
14	F190440182	KOCHAREKAR GAYATRI SATYAVIJAY		09
15	F190440188	KULKARNI ADITYA SUDHIR		23
16	F190440203	MORE DIVYA MACHINDRA		40
17	F190440210	NAGARGOJE OMKAR RAOSAHEB		29
18	F190440212	NANDAN GUPTA		30
19	F190440213	NARKHEDE PRANAV MANOJ		14
20	F190440220	ONKAR SANJAY TAKALE		20
21	F190440227	PATIL ATHARVA SHARAD		18
22	F190440229	PATIL BALIRAM RAMESH		34
23	F190440230	PATIL DEVESH SATYAWAN		20
24	F190440234	PATIL RHUSHIKESH VIKAS		30
25	F190440238	PAWADE RUTUJA VITTHAL		43
26	F190440243	PAWAR OMKAR SADASHIV		22
27	F190440247	PILLAI JOSHUA JABA		42
28	F190440250	PRATHAMESH DNYANESHWAR THIGALE		33
29	F190440251	PRATIK MACHHINDRA SHINDE		07
30	F190440255	PUJARI SHRADDHA RATNAKAR		34
31	F190440255	RAKSHE SHRINATH PRAVIN		23
32	F190440256	RAKSHE TANUJA GULAB		25

PRESENT	:-	32
ABSENT	:-	Nil
TOTAL	:-	32

NO OF FAILED STUDENTS :- 14

NO OF PASSED STUDENTS :- 18

(S. M. Nagapale)

NAME & SIGN OF JE SUPERVISOR

SEAL

NAME & SIGN OF EXAMINAR

SCOE, FE PRELIMINARY EXAMINATION 2022-23 (SEM-I)

COURSE- FE 2019 PATTERN BLOCK NO- 03

SUBJECT - ENGINEERING PHYSICS (107002) DATE - 01/03/2023

ATTENDANCE SHEET

Sr. No.	Seat No.	Name of Students	Sign	Marks
1	F190440257	RASAL MORESHWAR NANDKUMAR		24
2	F190440259	RASKAR VRUSHALI UTTAM		50
3	F190440260	RATHOD PAYAL TULSHIRAM		20
4	F190440261	RAUT PRADNYA SHAM		15
5	F190440262	REDDY SRUSHTI HIRHISHAN		32
6	F190440265	SABALE VEDANG BALASAHEB		15
7	F190440267	SADEWAD VISHWAJEET DATTU		15
8	F190440268	SAKORE PRATIK VILAS		30
9	F190440273	SANKET VILAS DESHMUKH		40
10	F190440279	SAUDAGAR SIQLIN ALLABAKSH		ABS
11	F190440283	SAYYED MOHAMMAD HANIF JILANI		08
12	F190440292	SHENDGE AMIT BABAN		16
13	F190440294	SHINDE DIKSHA NILESH		43
14	F190440301	SHINGDE GAYATRI BALAJI		ABS
15	F190440303	SHIVEKAR SWAPNIL NANDU		18
16	F190440304	SHRAVANI AJAYSING GAYDHAR		37
17	F190440306	SHRUTIKA ARUN CHAUDHARI		40
18	F190440308	SINGH ANKIT HARILAL		12
19	F190440311	SINGH YASHPAL SUMANTKUMAR		36
20	F190440314	SONAWANE SHREYA RAKHAMAJI		19
21	F190440321	SYED REHAN ALI SAJID ALI		15
22	F190440322	TADAKALE KARBASAPPA DATTATRAY		26
23	F190440323	TAKALKAR RUSHIKESH SUNIL		48
24	F190440326	TAMBOLKAR SHRUTI BALVANT		45
25	F190440329	TARLEKAR HARSH GAJANAN		24
26	F190440335	THORAT SHREYASH RAJESH		40
27	F190440337	TIKANDE LALIT RAMDAS		28
28	F190440347	VIDHATE YASH RAMDAS		54
29	F190440351	VYAVAHARE PRAVIN GOVARDHAN		18
30	F190440359	YADAV PRASHANT BRIJESH		17
31	F190440360	YADAV SURAJ RAMPRAKASH		22
32	F190440368	ZANJAD DIKSHA SATISH		18

PRESENT	:- 30
ABSENT	:- 02
TOTAL	:- 32

NO OF FAILED STUDENTS :- 16

NO OF PASSED STUDENTS :- 14

Prof. Ashwini Bhosale

NAME & SIGN OF JR SUPERVISOR

SEAL

NAME & SIGN OF EXAMINAR

SCOE, FE PRELIMINARY EXAMINATION 2022-23 (SEM-I)

COURSE- FE 2019 PATTERN BLOCK NO- 04

SUBJECT - ENGINEERING PHYSICS (107002) DATE - 01/03/2023

ATTENDANCE SHEET

Sr. No.	Seat No.	Name of Students	Sign	Marks
1	F190440002	ABHISHEK THAKUR	Abhishek	15
2	F190440004	ADANE VAISHNAVI MADHUKAR	Adane	37
3	F190440007	AMBIKE SHARDUL MILIND +15	Shardul A.	44
4	F190440009	ANARTHE RUCHIKA DATTATRAYA +15	Anarthe	49
5	F190440011	ATUL MANOJ SINGH	Atul	14
6	F190440015	BADE GURUDATTA KRUSHNA	Gurudatta	10
7	F190440020	BARBADE MOHIT ASHOK	Mohit	28
8	F190440024	BAVASKAR RITESH VIJAY	Ritesh	17
9	F190440026	BEHERA OMKAR BANAMALI	Omkar	38
10	F190440028	BHANDARI PRASEN BABLU +15 +15	P. Bhandari	37
11	F190440030	BHAWAR TUSHAR SAMPAT +15	Tushar	30
12	F190440033	BHOJANE BHAKTI BHASKAR +15	Bhakti	47
13	F190440035	BHOSALE AVISHKAR SHRIKANT +15	A. S. Bhosale	40
14	F190440039	BHUNDE YASH NANDU	Y. N. Bhunde	16
15	F190440054	CHAITANYA PAIGUDE +15+15	Chaitanya	56
16	F190440055	CHANGAN SHUBHAM SUDHAKAR	Shubham	26

PRESENT	- 16
ABSENT	- 00
TOTAL	- 16

Prof. Pooja Patil / Patil 01/03/23

NAME & SIGN OF IR SUPERVISOR

NO OF FAILED STUDENTS :- 05

NO OF PASSED STUDENTS :- 11

NAME & SIGN OF EXAMINAR

Kulkarni

SEAL

SIDDHANT COLLEGE OF ENGINEERING

DEPARTMENT OF FIRST YEAR ENGINEERING

STUDENTS PROGRESSIVE REPORT SEM - I

2-23 DIV A & B

			M-I			SME				CHEM				BEE				EM				Workshop	Total	Parents
Roll No	Seat No.	Name of Students	IN	CT(20)	AS(2)	IN	CT(20)	AS(3)	PR(5)	IN	CT1(10)	CT2(20)	PR(8)	IN	CT1(20)	CT2	PR(4)	IN	CT1	CT2	PR(5)	PR(4)	%TH	Signature
101	F190440008	AMBRE SWAPNIL DEEPAK	8	12	2	12	4	2	5	8	8	12	8	13	16	7	4	5	AB	17	5	4	92	
102	F190440014	BACCHE VAISHNAVI CHANDRAKANT	19	15	2	24	9	3	5	23	2	19	8	19	18	10	4	14	10	17	5	4	94	
103	F190440018	BAGADI CHANCHAL RAJU	12	10	2	13	7	1	3	16	2	15	6	15	12	AB	3	5	12	AB	5	2	80	
104	F190440022	BARI AYUSH SUNIL	12	9	1	8	1	2	4	6	0	10	6	4	2	AB	3	1	9	AB	5	4	68	
105	F190440042	BIDKAR DURVESH DINESH	12	5	2	12	2	3	3	10	1	10	6	7	1	0	3	3	3	8	3	4	68	
106	F190440046	BISWAS BISHAKHA BASUDEV	9	8	2	15	10	2	2	12	5	10	4	17	9	11	4	12	9	4	4	3	80	
107	F190440050	BORGLE SAKSHI GHANASHYAMDAS	24	20	2	20	7	3	4	22	4	AB	8	18	17	6	4	22	11	9	5	4	95	
108	F190440059	CHAUHAN SUMERSINGH I	8	4	2	12	9	1	4	12	2	AB	8	7	2	7	4	3	6	13	5	4	94	
109	F190440065	GHORAGE SAYALI SANJAY	21	18	2	13	2	3	5	13	6	10	8	13	12	9	3	4	6	16	2	4	73	
110	F190440078	DHONAGE SAPNA SUBHASH	6	6	2	17	8	3	5	18	5	7	6	15	16	2	3	12	6	13	5	4	94	
111	F190440070	DESHMUKH HARSHAL DILIP	1	5	2	0	1	3	5	3	4	14	8	6	7	AB	3	2	9	AB	4	4	77	
112	F190440071	DESHMUKH JANHAVI DILIPRAO	7	6	2	17	6	3	5	15	2	18	8	17	11	4	4	8	6	5	5	4	96	
113	F190440219	OM SHANKAR DESHMUKH	0	4	2	14	2	3	4	3	5	15	6	8	9	AB	3	1	6	AB	5	4	76	
114	F190440084	DIVEKAR SANIKA SUNIL	9	14	2	12	8	3	4	9	1	7	6	12	14	1	3	12	3	11	5	4	90	
115	F190440218	OM PRATAP GADEKAR	6	5	2	15	6	3	5	4	5	10	6	6	4	5	4	5	9	15	5	4	91	
116	F190440093	GADHAVE PREM RAJENDRA	0	2	1	1	AB	1	3	4	1	7	6	3	2	AB	4	0	9	AB	5	4	70	
117	F190440094	GAIGOLE GAURI NANDKISHOR	5	AB	1	19	5	1	2	16	2	7	2	9	AB	4	2	12	6	6	2	3	65	
118	F190440128	HUNASHALE SNEHA RAJKUMAR	12	9	2	15	5	3	5	15	4	18	8	12	12	7	4	10	9	AB	5	4	89	
119	F190440130	INGALE MOTIRAM BABARAO	6	3	2	15	3	2	4	12	8	AB	6	12	AB	5	3	4	10	14	1	3	76	
120	F190440147	JOSHI SUJAL ANIL	6	2	2	17	11	2	5	14	AB	13	6	12	AB	AB	4	5	9	AB	4	2	68	
121	F190440149	KADAM RUTURAJ RAMESH	14	9	2	9	4	1	4	13	AB	AB	6	14	AB	4	3	15	13	4	4	3	86	
122	F190440154	KAKADE ADITYA DATTATRAYA	4	3	2	23	13	2	5	13	AB	18	6	12	AB	4	3	6	10	7	4	4	85	
123	F190440157	KALE GAURAV SANJAY	12	15	2	22	12	2	5	17	4	18	6	16	17	5	2	14	11	7	4	4	94	
124	F190440160	KAMBLE ISHA RAJESH	4	AB	2	13	6	2	4	7	3	AB	6	15	14	AB	4	12	AB	AB	5	4	80	
125	F190440047	BOBADE AARYA MURLIDHAR	16	15	2	12	11	2	4	17	4	AB	6	15	18	7	4	12	10	5		4	97	
126	F190440167	KARGUDE SANSKRUTI SHIVAJI	19	17	2	18	9	3	4	24	2	18	8	15	17	4	4	12	8	4	5	4	93	
127	F190440173	KHAIRE SIDDHI RAJENDRA	8	9	2	17	12	3	5	14	7	AB	8	13	13	10	4	13	14	18	5	4	99	
128	F190440177	KHARCHE JITENDRA GANESH	6	4	2	16	4	1	5	8	AB	13	8	9	AB	6	4	4	6	10	5	4	77	
129	F190440186	KOTHAWALE MANISH MAHESH	4	2	2	3	0	2	2	11	1	9	2	1	AB	4	2	3	6	13	4	3	45	
130	F190440190	KURLEKAR ATHARVA SATISH	1	AB	1	16	8	1	4	12	3	10	4	12	2	AB	4	4	8	5	5	4	77	

SIDDHANT COLLEGE OF ENGINEERING

DEPARTMENT OF FIRST YEAR ENGINEERING

STUDENTS PROGRESSIVE REPORT

2-23 DIV A & B

			M-I			SME				CHEM				BEE				EM				Workshop	Total	Parents
Roll No	Seat No.	Name of Students	IN	CT(20)	AS(2)	IN	CT(20)	AS(2)	PR(5)	IN	CT1(10)	CT2(20)	PR(8)	IN	CT1(20)	CT2	PR(4)	IN	CT1 (20)	CT2 (20)	PR(5)	PR(4)	%TH	Signature
131	F190440195	MANDADE MOHIT SANTOSH	8	2	2	12	4	1	4	8	1	7	8	3	2	AB	3	5	10	AB	4	4	78	
132	F190440197	MARATHE HRISHIKESH SANTOSH	2	1	2	12	5	2	4	10	3	6	8	8	AB	6	3	3	9	0	4	3	87	
133	F190440208	MURTHY KRISHNA RAVIKIRAN	0	AB	1	6	AB	1	4	2	0	7	8	6	1	2	4	1	8	6	5	4	88	
134	F190440214	NAYAKODI LAXMI BHAGANTEPPA	20	16	2	19	12	3	5	19	2	18	6	15	16	11	4	22	11	18	5	3	98	
135	F190440226	PASHILKAR TANMAY KIRAN	17	AB	1	25	16	1	5	20	4	11	4	15	9	6	3	15	12	16	5	3	74	
136																								
137	F190440231	PATIL OMKAR JOTIBA	7	4	1	17	10	2	5	4	1	7	8	12	8	6	3	3	6	8	5	4	83	
138	F190440235	PATIL SAHILKUMAR ANANDRAO	2	2	2	12	4	1	2	6	2	AB	6	2	AB	AB	3	12	7	AB	5	3	67	
139	F190440239	PAWADE SAURABH VIVEK	2	2	0	18	5	3	4	9	4	15	6	8	AB	0	3	3	AB	11	3	4	76	
140	F190440242	PAWAR MANSI NAVNEET	9	8	2	21	11	3	5	19	8	18	8	14	13	3	4	12	8	12	5	4	94	
141	F190440245	PAWAR RISHABH RAJENDRA	12	10	2	12	1	1	3	5	0	5	2	8	AB	AB	2	5	9	AB	0	0	41	
142	F190440246	PHALKE UDAY NAVNATH	8	7	1	12	4	1	4	13	2	13	4	12	6	4	3	5	AB	4	4	4	73	
143	F190440254	RAIKAR SAKSHI PRASHANT	16	15	2	12	7	3	5	18	6	AB	6	16	10	4	3	10	8	10	5	3	95	
144	F190440271	SAMRUDDHI MOHAN BHOR	17	16	2	24	12	3	5	23	6	AB	6	23	10	AB	3	14	7	9	5	4	92	
145	F190440274	SARAWADE ROHIT SUNIL	12	AB	2	10	AB	1	4	8	3	9	6	13	AB	AB	3	13	10	9	2	3	65	
146	F190440275	SARTAPE SHIVKUMAR VINAYAK	16	16	1	18	4	1	3	15	10	12	6	15	16	6	4	6	AB	AB	5	4	86	
147	F190440277	SATAV MOKSHNATH PRAMOD	2	3	1	10	9	2	5	7	2	12	4	5	AB	6	4	3	9	13	3	4	81	
148	F190440281	SAWANT SUSHANT HANUMANT	13	9	2	22	AB	1	5	20	0	13	8	14	6	6	4	12	2	12	5	4	88	
149	F190440288	SHARMA AKSHAY MANOJ	14	1	2	25	8	1	4	23	4	18	6	16	13	0	3	12	6	23	2	2	79	
150	F190440293	SHEWALE SONAL RAJENDRA	10	8	2	7	5	2	4	9	4	8	6	9	12	5	4	16	5	AB	5	4	91	
151	F190440310	SINGH SANDEEP UDAY	13	12	2	17	6	2	5	25	5	15	8	7	12	1	4	14	6	6	5	4	91	
152	F190440313	SONAWANE DIVYA RAJESH	23	20	2	25	14	1	5	20	8	17	8	19	11	7	3	12	12	10	5	4	93	
153	F190440320	SURYAWANSHI SHASHWATI SAMADHAN	3	6	2	9	7	1	5	4	3	16	8	6	14	9	4	12	9	7	5	4	98	
154	F190440335	THAKUR PRINCE SATISH	24	20	2	19	2	1	5	20	2	16	8	17	8	6	4	12	10	16	5	4	95	
155	F190440340	TUPE SHWETA NAVNATH	12	9	2	17	10	1	5	19	8	18	8	13	16	8	4	12	6	19	5	4	94	
156	F190440344	VARE PRATIK BALU	3	4	2	13	2	1	5	2	AB	AB	4	6	2	0	3	1	5	10	3	4	78	
157	F190440345	VARE SHRIDHAR LANKU	4	6	2	14	AB	1	5	7	AB	AB	4	7	0	0	3	1	6	10	3	4	76	
158	F190440354	WALUNJ NIKHIL KUNDAN	1	2	2	16	7	2	4	7	6	AB	8	6	11	0	3	2	6	9	5	3	87	
159	F190440290	SHELKE AAKASH GANGADHAR	5	AB	2	6	0	1	5	5	AB	AB	8	5	AB	0	3	12	4	10	3	4	71	

SIDDHANT COLLEGE OF ENGINEERING

DEPARTMENT OF FIRST YEAR ENGINEERING

STUDENTS PROGRESSIVE REPORT

:-23 DIV A & B

			M-I			SME				CHEM				BEE				EM				Workshop	Total	Parents
Roll No	Seat No.	Name of Students	IN	CT(20)	AS(2)	IN	CT(20)	AS(3)	PR(5)	IN	CT1(10)	CT2(20)	PR(8)	IN	CT1(20)	CT2	PR(4)	IN	CT1	CT2	PR(5)	PR(4)	%TH	Signature
201	F190440074	DHANGAR PAVAN SANTOSH	19	18	2	17	AB	1	3	14	7	AB	6	12	12	AB	2	12	AB	AB	4	2	70	
202	F190440086	ALHAT CHINMAY PRAMOD	12	12	2	14	10	1	5	15	2	13	6	14	11	11	4	8	14	12	5	3	92	
203	F190440348	VISHAL BAPU WAGHMODE	12	10	1	21	16	2	5	19	2	AB	8	22	12	AB	2	12	13	AB	5	3	84	
204	F190440012	AYUSH BAG	15	14	1	14	11	1	4	16	6	12	8	19	12	15	3	15	5	12	2	3	74	
205	F190440027	BHAGAT KSHITIJA KUNDLIK	12	11	2	10	AB	3	5	15	6	AB	8	13	10	7	3	12	15	12	4	4	85	
206	F190440029	BHANGE DIPALI ACHYUT	3	4	2	12	0	2	4	13	AB	9	8	7	2	7	4	5	15	9	5	4	86	
207	F190440043	BIRADAR ANJALI RAMESH	3	5	1	12	3	2	5	13	6	5	6	8	5	5	4	3	15	AB	4	3	92	
208	F190440048	BOCHARE AISHWARYA SANJAY	22	19	2	19	AB	3	5	26	12	15	8	19	17	AB	4	12	15	AB	5	4	88	
209	F190440058	CHAUDHARY VAISHNAVI BALISTER	25	20	2	23	13	3	5	24	9	17	8	22	18	13	4	18	15	15	5	4	90	
210	F190440063	CHAVAN VISHAL PRAVIN	12	10	2	13	5	3	5	19	6	14	6	15	10	12	4	12	12	9	5	4	96	
211	F190440093	CHELEKAR MAHESH RAJARAM	22	18	2	12	10	1	4	15	9	10	6	14	8	AB	3	14	13	12	4	3	83	
212	F190440068	DEOKAR SNEHA SURESH	6	AB	1	18	AB	1	5	17	1	AB	6	14	10	6	3	12	13	7	4	4	80	
213	F190440075	DHANOKAR SAKSHI JAYDEO	12	9	2	14	7	2	5	16	AB	15	8	18	17	6	4	10	15	12	5	4	91	
214	F190440076	DHOLE ADITYA SANJAY	5	2	1	15	3	3	5	16	6	AB	8	6	8	4	2	5	1	15	5	4	86	
215	F190440091	GADE KARTIK ARUN	12	12	2	14	8	1	5	21	AB	AB	8	7	12	AB	4	14	11	AB	5	4	73	
216	F190440095	GAIKAR ABHISHEK ROHIDAS	21	18	2	15	4	3	5	19	5	10	6	13	10	7	4	14	5	15	5	4	84	
217	F190440097	GAIKWAD POOJA RAM	16	17	2	13	7	1	3	21	7	11	4	12	15	14	4	12	12	14	5	3	84	
218	F190440111	GHULE YOGRAJ HARISHCHANDRA	1	1	1	6	AB	1	5	4	2	11	4	2	10	6	2	1	AB	9	2	2	71	
219	F190440112	GOLE ATHARV BHARAT	15	16	1	10	AB	0	0	12	AB	0	4	12	11	AB	2	4	10	6	3	3	61	
220	F190440118	HAJARE SANKET SADASHIV	19	18	2	12	3	2	5	18	6	13	8	16	6	8	3	6	13	11	3	4	93	
221	F190440125	HINGE KSHITIJ GOKUL	12	14	1	19	10	1	4	12	AB		6	12	7	3	3	5	3	9	0	2	69	
222	F190440148	KAD SAI SANTOSH	7	5	2	8	AB	2	3	15	10		8	12	17	AB	3	12	15	AB	2	3	81	
223	F190440156	KALANGE PRATHAMESH VIKAS	12	13	2	23	10	2	4	19	8	7	6	16	16	AB	3	12	10	AB	4	3	75	
224	F190440161	KANASE ATHARVA JITENDRA	1	AB	0	3	AB	1	5	2	1	10	8	4	11	8	3	4	8	AB	3	4	63	
225	F190440165	KARANDE JAY ANAND	12	9	1	12	4	1	5	12	4	1	8	9	4	6	3	9	10	4	5	3	98	
226	F190440175	KHANDE RAMESHWAR SANJAY	12	10	1	18	13	1	3	17	3	9	6	12	11	3	3	9	5	11	3	2	83	
227	F190440192	LAKHMALE ASHISH ANANT	10	12	1	22	12	2	5	25	7	10	8	17	13	13	4	10	11	13	4	4	88	
228	F190440196	MANE SNEHAL BABAN	14	15	2	14	4	2	4	19	10		8	17	12	7	4	6	15	21	4	3	88	
229	F190440201	MOHITE APEKSHA DATTATRAYA	7	6	1	12	4	2	3	15	4	9	8	9	7	AB	2	5	14	AB	5	4	87	
230	F190440209	NAGAROJE ABHISHEK DEVIDAS	0	AB	0	5	0	0	0	0	AB	AB	4	1	AB	AB	2	2	AB	AB	4	2	14	

SIDDHANT COLLEGE OF ENGINEERING

DEPARTMENT OF FIRST YEAR ENGINEERING

STUDENTS PROGRESSIVE REPORT

I-23 DIV A & B

Roll No	Seat No.	Name of Students	M-I			SME				CHEM				BEE				EM				Workshop	Total	Parents
			IN	CT(20)	AS(2)	IN	CT(20)	AS(3)	PR(5)	IN	CT1(10)	CT2(20)	PR(8)	IN	CT1(20)	CT2	PR(4)	IN	CT1	CT2	PR(5)	PR(8)	%TH	Signature
231	F190440211	NAIK VIKAS MALKHAN	0	2	2	6	9	1	4	12	3	9	6	13	11	6	3	12	10	5	5	3	85	
232	F190440221	PADWAL SAHIL DATTATRAY	5	AB	1	16	2	3	5	18	7	1	8	13	5	7	4	5	2	14	5	4	96	
233	F190440224	PANDEY HEMANGI UMESHCHANDRA	22	19	2	20	AB	2	5	19	8	10	6	16	11	9	4	17	15	22	3	4	88	
234	F190440228	PATIL AYUSH SANJAY	0	AB	1	9	3	1	3	4	1	AB	6	3	4	AB	3	2	2	AB	1	2	75	
235	F190440236	PATIL SHREYA SANTOSH	13	10	2	24	9	2	4	21	AB	11	6	15	15	9	4	12	15	13	4	3	84	
236	F190440237	PATOLE SUJAL NAVNATH	12	12	2	14	2	1	5	12	7	AB	8	7	AB	12	4	9	15	20	5	3	91	
237	F190440123	HARSHAL VILAS PAWAR	12	13	1	18	9	1	0	14	6	AB	4	13	14	AB	4	12	6	AB	0	0	75	
238																								
239	F190440282	SAYYAD SAMEER JAMEER	13	AB	1	23	12	2	4	15	2	AB	8	18	AB	13	3	12	13	14	2	3	84	
240	F190440284	SEWLIKAR HARSHIT KULDEEP	24	17	2	26	14	3	5	24	7	13	8	28	18	10	4	22	14	13	5	3	87	
241	F190440291	SHELKE DNYANESHWAR SHANJAY	19	16	2	12	5	2	4	12	2	10	6	9	4	6	3	13	2	9	5	3	85	
242	F190440302	SHITOLE VAISHNAVI RAMDAS	4	2	1	11	11	2	4	12	AB	AB	8	12	17	8	4	12	13	16	4	2	85	
243	F190440312	SOMASE ADITYA PANDURANG	14	12	2	13	11	3	4	22	9	18	6	16	11	6	4	12	11	9	5	3	92	
244	F190440318	SURYAWANSHI ANIKET TANAJI	12	10	2	24	10	3	4	15	4	13	6	9	12	4	4	5	6	10	5	4	92	
245	F190440319	SURYAWANSHI PRASAD DILIP	19	16	2	20	11	2	4	26	11	AB	8	20	AB	AB	2	12	12	AB	2	2	80	
246	F190440323	NICHIT SUVASH KACHARU	13	12	2	24	10	1	5	18	3	9	8	6	15	3	4	12	9	14	5	4	93	
247	F190440325	TAMBE ARJUN ASHOK	6	4	1	5	AB	1	2	12	5	5	6	6	4	AB	4	6	11	9	5	3	79	
248	F190440328	TARHALE RAJESHWAR GAJANAN	5	2	2	5	3	3	3	12	6	5	6	8	6	6	3	4	11	9	5	2	82	
249	F190440341	YASH MUKUNDA TEKALE	2	1	0	9	AB	0	1	2	AB	AB	0	2	AB	3	0	1	10	9	1	0	53	
250	F190440136	THORAWADE ASHWINI TANAJI	12	9	2	17	AB	2	4	12	4	13	8	8	8	8	4	5	15	10	4	4	89	
251	F190440342	TURE SHAHIK SANJAY	1	1	1	12	AB	2	1	6	6	7	4	4	5	AB	1	1	11	AB	3	2	47	
252	F190440343	VAIDYA SURAJ DATTATRY	4	7	2	16	6	3	6	6	10	6	6	10	6	4	4	4	6	11	5	2	93	
253	F190440352	WAGHMARE TANUJA SHRAVAN	12	10	2	13	0	3	4	10	AB	AB	6	10	7	3	3	9	15	10	5	2	83	
254	F190440357	WAROLE SANKET RATNAKAR	26	20	2	30	13	3	5	22	10	18	8	24	20	16	3	25	15	23	4	4	97	
255	F190440252	PRITHVIRAJ SACHIN YADAV	12	11	2	23	9	3	4	16	8	10	8	16	13	10	4	8	12	12	5	3	84	
256	F190440364	YEDKE YOGITA ASHRUBA	9	AB	2	14	9	1	5	18	4	AB	8	17	11	12	3	4	3	8	4	3	86	
257	F190440366	YEOLE SHREYA KISHOR	5	2	1	9	0	3	5	5	1	3	8	6	4	6	4	1	15	12	2	3	78	
		FACULTY NAME	Prof. Shilpa Charapale			Prof. Rushikesh More				Dr Uttam Shinde				Prof. Sonali Ghuge				Prof. Pooja Patil						
		FACULTY SIGNATURE																						

Shinde U. V.
First Year Co-ordinator

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301	F190440064	CHIRAG RAMESHCHANDRA AGRAWAL	16	Y	Y	14	5	8	3	25			2	17	16	0	4	14	AB	AB	3	4	66	
302	F190440009	ANARTHE RUCHIKA DATTATRAYA	8	Y	Y	17	6	9	4	22			4	17	AB	10	6	19	10	9	4	4	91	
303	F190440002	AMBIKE SHARDUL MILIND	3	Y	Y	12	5	6	4	14			3	12	AB	3	3	15	5	AB	2	3	78	
304	F190440015	BADE GURUDATTA KRUSHNA	12	Y	Y	12	4	9	4	12			4	3	1	AB	4	7	4	9	2	4	77	
305	F190440020	BARBADE MOHIT ASHOK	8	Y	Y	5	8	8	4	12			4	12	3	5	6	14	8	8	2	4	81	
306	F190440024	BAVASKAR RITESH VIJAY	12	Y	Y	17	3	5	3	16			3	5	2	5	5	19	3	5	3	4	85	
307	F190440026	BEHERA OMKAR BANAMALI	15	Y	Y	19	8	5	3	16			1	12	7	0	6	16	13	12	2	4	84	
308	F190440030	BHAWAR TUSHAR SAMPAT	5	Y	Y	12	5	9	4	18			3	5	7	5	6	19	13	9	4	3	93	
309	F190440035	BHOSALE AVISHKAR SHRIKANT	24	Y	Y	18	6	6	4	26			4	19	11	15	6	17	10	10	3	4	96	
310	F190440054	CHAITANYA FAIGUDE	14	Y	Y	20	8	8	3	29			4	17	10	6	5	28	15	16	3	3	89	
311	F190440055	CHANGAN SHUBHAM SUDHAKAR	6	Y	Y	13	9	7	3	26			4	13	4	8	6	21	9	13	4	3	89	
312	F190440056	CHARU SHARMA	22	Y	Y	25	5	8	4	26			4	21	9	10	6	26	15	16	4	4	95	
313	F190440306	SHRUTIKA ARUN CHAUDHARI	18	Y	Y	14	9	6	4	14			4	15	8	13	6	16	9	11	4	4	97	
314	F190440066	DAHIFALE SIDDHARTH ASHOK	9	Y	Y	6	7	5	3	5			4	6	0	0	6	1	7	10	4	3	87	
315	F190440273	SANKET VILAS DESHMUKH	16	Y	Y	13	4	3	4	23			4	15	6	15	6	19	4	6	2	2	86	
316	F190440072	DEVKAR NEHA DASHARATH	13	Y	Y	17	5	5	4	12			4	17	2	10	4	16	5	10	3	2	81	
317	F190440067	DAMARE ONKAR RAJENDRA	12	Y	Y	14	5	5	3	14			4	2	6	6	3	13	5	10	3	4	92	
318	F190440081	DIKSHA POPAT GAIKWAD	19	Y	Y	19	8	9	4	24			2	15	9	AB	1	20	11	13	2	3	83	
319	F190440090	GADE AVANTIKA RAJU	5	Y	Y	12	5	7	4	12			4	12	AB	5	4	13	AB	7	2	2	83	
320	F190440098	GAJARE BHUPESH NITIN	1	Y	Y	6	4	5	3	18			3	12	3	AB	6	12	8	10	2	4	66	
321	F190440106	GAWARI KESHAV GOVIND	0	N	N	AB	5	AB	2	AB			4	AB	AB	AB	3	AB	AB	AB	2	0	14	
322	F190440308	SHRAVANI AJAYSING GAYDHAR	12	Y	Y	13	7	6	4	15			3	14	6	AB	4	12	7	11	3	4	71	
323	F190440108	GITARAT ABHISHEK SAKHARAM	20	Y	Y	22	6	5	4	27			4	17	7	13	5	24	12	12	4	4	94	
324	F190440110	GHORPADE RUTUJA RAJENDRA	5	Y	Y	15	8	9	3	20			4	14	6	10	6	20	8	9	3	3	91	
325	F190440116	GUND HARSHAD SUNIL	6	Y	Y	15	5	6	4	17			4	15	5	6	6	19	10	12	4	4	95	
326	F190440329	TARLEKAR HARSH GAJANAN	7	Y	Y	14	6	6	4	20			3	12	AB	2	2	16	11	11	2	4	71	
327	F190440123	HEBADE MAYUR JIVAN	19	Y	Y	22	4	8	4	24			4	16	13	17	5	17	4	8	4	4	93	
328	F190440124	HINGANE SAKSHI SHIVPRAKASH	12	Y	Y	18	9	9	4	19			4	14	8	9	3	17	9	9	4	4	90	
329	F190440127	HULAWALE YASH AJIT	3	Y	Y	12	7	5	AB	12			4	13	6	4	4	12	7	AB	4	4	83	
330	F190440131	JADHAO DHANASHREE GAJANAN	0	Y	Y	6	AB	AB	AB	12			3	8	AB	AB	0	4	AB	AB	0	0	8	

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331	F190440132	JADHAV ANJALI DNYANOBA	15	Y	Y	12	6	5	3	12			4	5	8	3	6	20	11	9	3	4	94	
332	F190440136	JADHAV MADHURA ANIL	13	Y	Y	14	7	6	3	19			4	12	5	9	5	18	7	10	3	4	93	
333	F190440137	JADHAV PARTH GOPAL	0	Y	Y	7	6	5	4	14			4	12	4	5	6	13	6	AB	2	4	88	
334	F190440139	KALOKHE MRUNAL MOHAN	2	Y	Y	13	8	9	3	12			4	12	6	17	6	12	8	9	1	4	89	
335	F190440176	KHANDELOTE MEHUL SURESH	3	Y	Y	7	7	6	2	7			3	0	AB	3	5	3	7	6	4	4	80	
336	F190440181	KHILE BHARATI SARJERAO	29	Y	Y	21	6	8	2	29			3	22	AB	15	5	25	12	16	4	4	80	
337	F190440188	KULKARNI ADITYA SUDHIR	5	Y	Y	12	7	8	4	8			4	12	0	5	5	13	7	8	3	4	86	
338	F190440229	PATIL BALIRAM RAMESH	14	Y	Y	17	6	6	2	22			3	15	3	8	6	23	AB	AB	4	4	83	
339	F190440234	PATIL RHUSHIKESH VIKAS	20	Y	Y	22	6	7	4	24			4	13	6	11	6	22	6	12	3	4	93	
340	F190440238	PAWADE RUTUJA VITTHAL	15	Y	Y	16	6	7	2	21			0	23	12	7	6	19	13	14	2	4	75	
341	F190440243	PAWAR OMKAR SADASHIV	12	Y	Y	11	7	5	2	15			4	13	5	AB	4	12	AB	10	3	3	80	
342	F190440255	RAKSHE SHRIYATH PRAVIN	15	Y	Y	13	5	6	2	21			3	15	AB	8	6	18	10	12	3	3	84	
343	F190440259	RASKAR VRUSHALI UTTAM	12	Y	Y	12	6	4	AB	20			3	12	AB	AB	6	20	6	AB	3	3	74	
344	F190440260	RATHOD PAYAL TULSHIRAM	12	Y	Y	7	5	5	4	13			3	3	2	AB	6	12	10	9	4	4	91	
345	F190440265	SABALE VEDANG BALASAHEB	12	Y	Y	19	3	8	4	21			4	12	0	AB	6	15	3	8	2	4	87	
346	F190440267	SADEWAD VISHWAJEET DATTU	1	Y	Y	10	4	3	AB	2			4	12	AB	0	5	12	4	AB	2	4	73	
347	F190440283	SAYYED MOHAMMAD HANIF JILANI	8	Y	Y	9	3	6	4	12			3	8	2	11	6	15	3	12	4	4	82	
348	F190440292	SHENDGE AMIT BABAN	25	Y	Y	12	4	6	4	16			3	10	6	3	6	12	4	12	2	4	86	
349	F190440294	SHINDE DRISHA NILESH	12	Y	Y	14	7	4	2	21			0	15	3	AB	5	20	14	AB	1	3	86	
350	F190440308	SINGH ANKIT HARILAL	3	Y	Y	4	6	AB	AB	1			3	0	AB	AB	3	2	AB	AB	1	1	52	
351	F190440311	ATUL MANOJ SINGH	8	Y	Y	12	6	AB	3	8			3	12	AB	9	6	12	6	AB	3	3	65	
352	F190440322	TADAKALE KARBASAPPA DATTATRAY	12	Y	Y	15	6	4	AB	20			4	14	9	8	6	16	6	AB	2	4	90	
353	F190440328	ONKAR SANJAY TAKALE	3	Y	Y	11	5	6	2	14			3	7	3	10	2	12	AB	11	2	1	76	
354	F190440326	TAMBOLKAR SHRUTI BALVANT	12	Y	Y	15	8	7	2	13			0	12	8	8	6	14	8	15	3	4	84	
355	F190440335	THORAT SHRIYASH RAJESH	0	Y	Y	15	7	4	3	12			3	12	AB	4	5	13	7	8	3	4	77	
356	F190440337	TIKANDE LALIT RAMDAS	6	Y	Y	17	7	6	4	17			3	17	4	7	6	13	7	12	3	4	92	
357	F190440339	YADAV PRASHANT BRIJESH	15	Y	Y	14	9	6	3	23			4	18	3	9	6	14	9	11	3	4	95	

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401	F190440092	ABHISHEK THAKUR	1	Y	Y	2	2	AB	2	4			0	0	0	0	0	2	2	AB	2	1	81	
402	F190440033	BHOJANE BHAKTI BHASKAR	13	Y	Y	17	9	7	2	16			4	15	9	9	5	22	9	14	2	4	91	
403	F190440028	BHANDARI PRASEN BABLU	18	Y	Y	22	6	7	3	25			4	18	11	AB	6	16	12	13	4	4	92	
404	F190440039	BHUNDE YASH NANDU	8	Y	Y	12	8	6	3	13			3	8	2	5	6	14	8	11	3	4	93	
405	F190440004	ADANE VAISHNAVI MADHUKAR	18	Y	Y	22	6	8	3	29			4	24	8	AB	5	20	6	15	2	4	81	
406	F190440062	CHAVHAN ATHARVA SUDHAKAR	0	Y	Y	9	4	7	3	12			4	5	3	12	3	12	4	7	2	4	75	
407	F190440073	DEVRE DARSHAN DINESH	14	Y	Y	15	6	5	3	12			4	12	2	6	1	12	6	10	4	3	80	
408	F190440068	ZANJAD DIKSHA SATISH	15	Y	Y	18	5	6	3	14			4	17	9	10	6	12	5	13	2	4	98	
409	F190440079	DHORAJKAR SHUBHAM DILIP	12	Y	Y	15	4	6	3	15			3	14	7	0	3	12	4	AB	1	3	75	
410	F190440082	DIVATE HEMANT PARSHURAM	7	Y	Y	9	1	4	2	5			2	1	AB	AB	5	5	1	AB	4	2	63	
411	F190440085	DOBALE VAIBHAV BABURAO	12	Y	Y	10	9	6	2	14			3	12	5	0	6	12	9	13	2	4	89	
412	F190440086	DONUR PRATWAL ASHOK	5	Y	Y	12	4	4	2	12			3	12	2	2	3	13	4	8	4	3	93	
413	F190440101	GARGOTE RAJGURU NAVANATH	14	Y	Y	13	4	6	3	17			4	16	5	3	6	17	4	13	1	4	95	
414	F190440102	GARJE BHAGVAN AJINATH	4	Y	Y	9	3	5	AB	9			0	12	0	0	0	5	3	7	1	0	80	
415	F190440104	GAVHANE RUTUJA MAHADEV	14	Y	Y	17	8	7	3	27			4	18	9	10	6	20	8	14	3	4	92	
416	F190440107	GAWATE SARTHAK DATTATRAY	0	Y	Y	4	AB	AB	AB	2			0	0	AB	AB	0	1	AB	0	3	0	9	
417	F190440101	SHINGDE GAYATRI BALAJI	6	Y	Y	14	6	5	2	17			0	12	AB	AB	3	15	6	AB	2	1	74	
418	F190440114	GORDE SURAJ SHARAD	0	Y	Y	6	3	4	2	15			3	12	3	1	0	12	0	8	3	4	87	
419	F190440121	HANWANTE SAYALI SANJAY	12	Y	Y	14	6	7	AB	20			3	15	9	3	3	21	AB	14	4	3	84	
420	F190440133	JADHAV ASHOK BHAGWAT	15	Y	Y	15	9	5	2	21			4	14	10	9	3	15	9	AB	3	3	85	
421	F190440138	JADHAV PRATIKSHA KRISHNA	20	Y	Y	23	9	8	2	25			4	22	8	AB	6	17	9	15	4	4	85	
422	F190440141	JAGTAP PRANAV GUNESH	1	Y	Y	12	9	6	2	12			4	4	6	AB	6	12	9	12	4	4	91	
423	F190440142	JAHAGIRDAR SUHAIB NAZIM	12	Y	Y	16	6	8	2	16			4	5	AB	AB	4	20	6	8	3	4	68	
424	F190440143	JAGUSE SIDDHI SHANKAR	2	Y	Y	12	9	7	2	21			4	14	9	10	6	15	9	14	3	4	90	
425	F190440146	JAYACHE NAGESH BALAJI	19	Y	Y	15	6	6	2	21			3	15	12	2	4	17	12	AB	4	2	91	
426	F190440153	KAGANE NIKITA ASHOK	26	Y	Y	22	5	8	2	30			4	27	14	15	6	24	14	15	3	4	90	
427	F190440158	KALE PRIYANKA SUKHDEV	6	Y	Y	17	9	7	AB	29			3	19	7	AB	6	19	9	14	4	4	87	
428	F190440163	KANEKAR NIDHI SURENDRA	19	Y	Y	18	8	7	AB	21			4	20	8	9	6	18	8	14	4	4	92	
429	F190440168	KARMALKAR NEHA YOGESH	12	Y	Y	12	6	6	2	18			0	16	AB	AB	6	18	AB	12	3	3	85	
430	F190440171	KEDAR ASHWINI RADHAKRUSHNA	1	Y	Y	12	8	5	AB	12			4	12	AB	3	6	12	8	10	3	4	83	

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431	F190440182	KOCHAREKAR GAYATRI SATYAVIJAY	3	Y	Y	10	6	6	AB	12			4	3	AB	AB	4	12	6	15	3	3	88	
432	F190440283	MORE DIVYA MACHINDRA	15	Y	Y	17	5	5	2	27			4	19	7	3	6	22	5	AB	2	4	89	
433	F190440210	NAGARGOJE OMKAR RAOSAHEB	0	Y	Y	4	2	3	2	9			4	2	AB	AB	4	3	0	11	2	2	78	
434	F190440212	NANDAN GUPTA	12	Y	Y	9	6	4	AB	17			4	12	5	0	4	15	6	10	2	3	86	
435	F190440213	NARKHEDE PRANAV MANOJ	20	Y	Y	15	6	6	2	21			4	17	6	AB	6	22	6	13	2	4	86	
436	F190440227	PATIL ATHARVA SHARAD	0	Y	Y	14	8	6	AB	12			4	6	4	AB	6	6	8	13	3	1	88	
437	F190440230	PATIL DEVESH SATYAWAN	0	Y	Y	13	6	6	4	7			4	12	6	0	4	12	6	12	4	3	83	
438	F190440247	PILLAI JOSHUA JABA	13	Y	Y	17	6	5	3	20			4	16	8	1	5	14	10	AB	3	4	75	
439	F190440268	SAKORE PRATIK VILAS	18	Y	Y	11	0	6	4	23			3	12	2	AB	3	13	0	13	3	4	81	
440	F190440253	PUJARI SHRADDHA RATNAKAR	15	Y	Y	12	6	7	4	17			4	16	10	AB	4	21	11	15	3	3	88	
441	F190440256	RAKSHE TANUJA GULAB	24	Y	Y	13	4	6	3	24			4	13	10	3	5	15	4	13	3	4	90	
442	F190440257	RASAL MORESHWAR NANDKUMAR	8	Y	Y	12	7	5	4	15			3	12	6	3	4	15	14	11	3	4	87	
443	F190440261	RAUT PRADNYA SHAM	17	Y	Y	18	7	6	3	24			4	20	5	AB	5	21	7	13	1	4	91	
444	F190440262	REDDY SRUSHTI BIBHISHAN	25	Y	Y	22	6	8	2	26			4	12	AB	5	2	22	10	16	3	4	78	
445	F190440279	SAUDAGAR SKQLIN ALLABAKSH	0	Y	Y	2	AB	AB	4	1			0	5	AB	AB	0	5	AB	AB	3	0	7	
446	F190440287	PRATIK MACHHINDRA SHINDE	8	Y	Y	14	0	6	2	13			4	5	2	AB	4	8	0	12	3	0	69	
447	F190440303	SHIVEKAR SWAPNIL NANDU	14	Y	Y	9	4	6	4	12			4	12	6	8	6	18	8	13	3	4	89	
448	F190440311	SINGH VASHPAL SUMANTKUMAR	12	Y	Y	16	4	8	4	17			4	15	2	AB	6	16	4	8	3	4	91	
449	F190440314	SONAWANE SHREYA RASHAMAJI	12	Y	Y	12	4	5	4	13			4	12	AB	AB	5	21	AB	AB	2	4	72	
450	F190440321	SYED REHAN ALI SAJID ALI	10	Y	Y	17	6	5	4	8			4	9	2	6	6	12	6	AB	2	4	83	
451	F190440325	TAKALKAR RUSHIKESH SUNIL	12	Y	Y	13	4	6	4	23			3	12	1	3	4	16	4	6	2	3	80	
452	F190440330	PRATHAMESH DNYANESHWAR THIGALE	13	Y	Y	14	7	6	4	18			4	12	3	AB	2	12	7	AB	3	3	66	
453	F190440347	VIDHATE VASH RAMDAS	14	Y	Y	12	5	8	4	19			4	15	7	4	3	14	10	15	3	4	93	
454	F190440360	YADAV SURAJ RAMPRAKASH	12	Y	Y	14	5	5	AB	22			2	15	AB	1	2	22	AB	AB	2	4	71	
455	F190440351	VYAVAHARE PRAVIN GOVARDHAN	12	Y	Y	13	4	4	3	19			4	12	3	AB	3	13	4	AB	2	4	77	
		FACULTY NAME	Prof Avinash Tekale			Prof Bhagwat Kedar				Prof Deepak Kute				Prof Dipali Bajare				Prof Ashwini Bhosale						
		FACULTY SIGNATURE																						

Date: -10/05/2023

CAYMET'S

SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE, PUNE

FIRST YEAR ENGINEERING (2022-23) SEM-I

S.P.PUNE UNIVERSITY RESULT

HEARTY

CONGRATULATIONS ...!!!

Sr. No.	Name of Student	Marks out of 650	SGPA	Credit	Div
1	Warole Sanket Ratnakar	554	9.14	50	B
2	Khile Bharati Sarjerao	523	8.68	50	C
3	Kagane Nikita Ashok	520	8.5	50	D
4	Gharat Abhishek Sakharam	499	8.41	50	C
5	Chaudhari Vaishnavi Balister	499	8.32	50	B

Dr. U. V. Shinde
FE Co-ordinator

Dr. L. V. Kamble
Principal
Siddhant College of Engineering
Sudumbare, Pune - 412 109

Date: -10/05/2023

CAYMET'S

SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE, PUNE

FE-SEM-I Result Analysis 2022-23

Subject Wise Result Analysis

Sr. No.	Name of Subject	No. of Student Appear	No. of Student Pass	No. of Student Fail	%age of Result	Name of Staff
1	Engineering Maths - I	114 (DIV A and B)	55	59	48.24	Prof. Shilpa Chaugule
		109(DIV C and D)	43	66	39.44	Prof. Avinash Tekale
2	Engg. Chemistry	114	53	61	46.49	Dr Uttam Shinde
3	Engg. Physics	109	46	63	42.20	Prof. Deepak kute
4	Basic Electrical Engg	113	37	76	32.74	Prof. Sonali Gavge
5	Basic Electronics Engg	109	65	44	59.63	Prof. Deepali Bajare
6	System in Mechanical Engg	114 (DIV A and B)	90	24	78.94	Prof. Rushikesh More
		109 (DIV C and D)	85	24	77.98	Prof. Kedar Bhagwat
7	Engg. Mechanics	113	30	83	26.54	Prof. Pooja Patil
8	PPS	109	79	30	72.47	Prof. Ashwini Bhosle

- Total No of Students Appeared = 223
- Total No of Students Failed = 171
- Total No of Students Passed = 52
- **All Clear Result = 23.33%**

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SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE, PUNE

FE-SEM-I Result Analysis 2022-23

First Ten Toppers

Sr. No.	Name of Student	Marks out of 650	SGPA	Credit	Div
1	Warole Sanket Ratnakar	554	9.14	50	B
2	Khile Bharati Sanjerao	523	8.68	50	C
3	Kagane Nikita Ashok	520	8.5	50	D
4	Gharat Abhishek Sakharam	499	8.41	50	C
5	Chaudhari Vaishnavi Balister	499	8.32	50	B
6	Reddy Shrushti Bibhishan	483	8.05	50	D
7	Borole Sakshi ghanashyamdas	476	8.00	50	A
8	Jadhav pratiksha Krishna	477	7.95	50	D
9	Bhandari Prasen Bablu Patil Rushikesh Vikas	473 469	7.82	50	D C
10	Jayache Nages Balaji Sawlikar Harshit Kuldeep	464 467	7.82	50	D B

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FE-SEM-I Result Analysis 2022-23

Subject Toppers

Sr. No.	Name of Student	Subject	Marks (OUT OF 100)	Div
1	Khile Bharati Sarjerao	M-I	87	C
2	Warole Sanket Ratnakar	SME	91	B
3	Chaudhari Vaishnavi Balister	CHEM	85	B
4	Khile Bharati Sarjerao	PHY	85	C
5	Warole Sanket Ratnakar	EM	66	B
7	Warole Sanket Ratnakar	BEE	83	B
8	Reddy Shtuti G.	PPS	74	D
9	Khile Bharati Sarjerao Kagane Nikita Ashok Bhandari Prasen Bablu	BLX	76	C D D

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