



SPVVS'S

**G.P.PORWAL ARTS, COMMERCE &
V.V.SALIMATH SCIENCE COLLEGE,
SINDGI**



BROCHURE



DEPARTMENT OF PHYSICS

**CERTIFICATE COURSE
2020-21**

Title : PREPARATION OF POWER SUPPLY

DATE: 8/01/2021 TO 25/02/2021

**Head
Dept. of Physics
G.P.P. Arts, Commerce & V.V.S. Science
College, SINDAGI - 586 128.**

**Coordinator IQAC
G. P. PORWAL ARTS, COM &
V. V. SALIMATH Sc. College,
SINDGI-586128.**

**Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 5234**



S.P.V.V.S.
G.P. PORWAL ARTS, COMMERCE AND
V.V. SALIMATH SCIENCE COLLEGE,
SINDGI - 586 128

DEPARTMENT OF PHYSICS

CERTIFICATE COURSE DETAILS

INSTRUCTIONAL DESIGN

NAME OF THE COURSE

PREPARATION OF POWER SUPPLY

OFFERED BY

DEPARTMENT OF PHYSICS

COURSE CODE

PHYPS.2020-21

COURSE COORDINATOR

SHRI M.H.LONI

HOD, PHYSICS

30 HOURS (This course is of Thirty Hrs duration which include Theory and Practical)

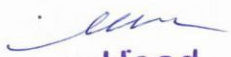
ABOUT COLLEGE

G.P.Porwal Arts, Commerce & V.V.Salimath Science College is the first science college in Sindagi Taluk of Vijayapura district which provides education in science stream at U.G. level to the educationally, economically and socially backward students of this Taluk. Since 1988, many students are graduated with B.Sc in Physics is one of the optional subject.

IQAC of G.P.Porwal Arts, Commerce & V.V.Salimath Science College, in its meeting decided to introduce few self financed certificate courses from the academic sessions 2020-21. The continuation of these courses will depend on interest and participation of students

ELIGIBILITY

All students belonging to V semester are eligible to enroll for the course


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G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 52

OBJECTIVES

Every home in the modern world is equipped with Home Appliances which work with the help of Electrical/Electronic power supplies. Some time a casual faults in the equipments e.g. Mixer Grinder, Refrigerator, TV sets, Geysers, Air Conditioners. etc. may be due to loose contact in the connections. When such kind of difficulty arises at homes the people become panic. In such circumstances the students who have completed the certificate course “ PREPARATION OF POWER SUPPLY “ can be able to

- Find out minor faults in electronic equipments
- Repair the Appliances
- Understand basic knowledge about construction of Power supply

The students can Establish a small scale industry

BENEFITS OF PREPARATION OF POWER SUPPLY

1. Safety when power misbehaves

2. Bridge the connectivity gap
3. Protecting reputations
4. Protect the public and other businesses
5. Choose from multiple design

COURSE OUTCOMES

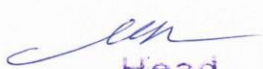
After completion of course the student is able to

- Design the desired voltage power supply
- Find out the fault in any other power supplies
- To repair minor faults
- Soldering
- Minor carpentry work
- To repair minor household electric wiring faults etc
- Know Short circuit reasons
- Aware of Electric Shocks

BOARD OF STUDIES

- 1) Prof. M.H.Loni (HOD)
- 2) Dr.B.G.Math
- 3) Mr.M.U.Madagonda

THANK YOU


Head
Dept. of Physics
G.P.P. Arts, Commerce & V.V.S.Science
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Coordinator IQAC
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SINDGI-586128.


Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 5

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SINDGI-586128 DIST: VIJAYAPUR

Department of Physics

To,
The Coordinator,
IQAC

Date: 01/01/2021

Academic Year: 2020-21

Sub: Request for Permission to Introduce Certificate Course in Physics

Sir/Madam,

With reference to subject cited above I would like to bring to your kind information that; our Department is going to introduce Certificate Course for B.Sc. V semester students. Kindly permit us the same for the welfare of our students.

Hoping that the authority will do the needful and oblige

Thanking you

Place; Sindgi
Date: 01/01/2021


Head of Department,
Head
Dept. of Physics
G.P.P. Arts, Commerce & V.V.S. Science
College, SINDAGI - 586 128.


Coordinator IQAC
G. P. PORWAL ARTS, COM &
V. V. SALIMATH Sc. College,
SINDGI-586128.


Principal,
G. P. Porwal Arts, Comm &
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G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATHSCIENCE COLLEGE,
SINDGI-586128 DIST: VIJAYAPUR

Department of Physics

Date: 02/01/2021

To,
Head,
Department of Physics

Academic Year:2020-21

Sub: Permission to Introduce Certificate Course in the Dept. of Physics
Ref: Your letter Dated: 01/01/2021

Sir/Madam,

With reference to subject cited above I herewith permit you to introduce
Certificate Course for B.Sc. V semester students.

Thanking you

Place; Sindgi

Date:02/01/2021


Coordinator IQAC
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V. V. SALIMATH Sc. College,
SINDGI-586128.


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PMP

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SINDGI-586128 DIST: Bijapur

Affiliated to Rani Channamma University- Belagavi(Karnataka State)

Date: 04/1/2021

Department of Physics

NOTICE

It is hereby informed to all the students of BSc V semester that Certificate course on
"Preparation of Power supply " will be started in our college from 8/1/2021 Hence
interested students may apply on or before 7/1/2021

Contact:

Prof. M.H.Loni, (HOD)
Prof.Manjunath U Madagonda

Dr.B.G.Math


Head
Dept. of Physics
G.P.P. Arts, Commerce & V.V.S.Science
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SINDGI-586128 DIST: VIJAYAPUR

DEPARTMENT OF PHYSICS

CERTIFICATE COURSE

OBJECTIVES

Title of the Course: **PREPARATION OF POWER SUPPLY**

Every home in the modern world is equipped with Home Appliances which work with the help of Electrical/Electronic power supplies. Some time a casual faults in the equipments e.g. Mixer Grinder, Refrigerator, TV sets, Geysers, Air Conditioners. etc. may be due to loose contact in the connections. When such kind of difficulty arises at homes the people become panic. In such circumstances the students who have completed the certificate course "PREPARATION OF POWER SUPPLY" can be able to

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- Repair the Appliances
- Understand basic knowledge about construction of Power supply

The students can Establish a small scale industry


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SINDGI-586128 DIST: Bijapur

Department of Physics

Certificate course

➤ Preparation of Power supply Academic Year 2020-21

Syllabus:- 30 hrs

✓ **Capacitor, Resistor, Transformer**

Capacitor:- Color code, types of capacitors, tolerance, series and parallel connection of capacitors, voltage rating of capacitors.

Resistors:- Carbon resistors, wire wind resistors, metal film resistors, color code, tolerance, series and parallel connection of resistors, ohms law, wattage of resistors,

Inductors :- Air core inductors and iron core inductors,

Transformer:- term ratio, types i.e. step up and step down transformer, current rating, mutual inductance. regulator using transistor **15 hrs**

✓ **Diode, Rectifier, Filters, Regulator (Zener diode, 3 pin regulator)**

Semiconductors, intrinsic and extrinsic semiconductors, P type and n type semiconductors, junction diode, transistor, biasing(forward and backward), zener diode, rectifier, half wave rectifier, full wave rectifier using diode, static rectifier, filters, condenser filter, L- section filter, Pi- section filter, breeder resistance, **Testing of power supply:-** open circuit voltage, current rating, output resistance, 3 pin regulator **15 hrs**

Practicals: 6 hrs

- ✓ Soldering, Drilling, Terminal fitting
- ✓ Workshop, Preparation of PCB

Board of Syllabus committee

- 1) Prof. M.H.Loni (HOD)
- 2) Dr.B.G.Math
- 3) Mr.M.U.Madagonda
- 4) Mr.Pradeep Katti C.M.Managuli college, Sindagi


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Head
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College, SINDGI - 586128


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V V Salimath Sc. College
SINDGI-586128. College Code: 5201

G.P. PORWAL ARTS, COMMERCE & V.V. SALIMATH SCIENCE COLLEGE, SINDAGI

ENROLMENT OF STUDENTS CLASS: B.Sc. V SEM

SUBJECT : Physics

Certificate Course 2020-21

SL NO	Regd No.	StudentName	sign
1	S1828402	AFREEN BIRADAR	<u>Afreen</u>
2	S1828403	AKASH KURUDE	<u>Akash</u>
3	S1828405	AKSHATA A DESHAPANDE	<u>Akshata</u>
4	S1828406	AKSHATA BASAVARAJ MASHYAL	<u>ABM</u>
5	S1828407	AMBARISH B MULASAVALAGI	<u>Ambarish</u>
6	S1828408	AMBIKA	<u>Ambika</u>
7	S1828413	ANJALI	<u>Anjali</u>
8	S1828414	ANJALI PYATI	<u>Anjali</u>
9	S1828415	ANJANA N NIDAGUNDI	<u>Anjand</u>
10	S1828417	ASHOK ANKALAGI	<u>Ashok</u>
11	S1828418	ASHWINI	<u>Ashwini</u>
12	S1828419	ASHWINI NAIKODI	<u>Ashwini</u>
13	S1828424	BABURAO NANDURAKAR	<u>Baburao</u>
14	S1828425	BANGARAMMA	<u>Bangamma</u>
15	S1828426	BASALINGAMMA S BOODIHAL	<u>Basalingamma</u>
16	S1828431	BHAGYADEEPA PATTAR	<u>Bhagya</u>
17	S1828432	BHAGYALAXMI MAILAPUR	<u>Bhagya</u>
18	S1828433	BHAGYASHREE	<u>Bhagya</u>
19	S1828435	BHAGYASHREE ARALA	<u>Bhagya</u>
20	S1828437	BHAGYASHREE HUGAR	<u>Bhagya</u>
21	S1828439	BHAGYASHREE WALIKAR	<u>Bhagya</u>
22	S1828440	BHUVANESHWARI S YARAGAL	<u>Bhuv</u>
23	S1828441	BIRADAR ABHISHEK KALLAPPA	<u>Abhishek</u>
24	S1828444	CHANDRAKANT TAKKALAKI	<u>Chandra</u>
25	S1828445	CHANNABASAPPA BIRADAR	<u>Channabasappa</u>
26	S1828446	DEEPA KOPPA	<u>Deepa</u>
27	S1828449	FATIMABEGUM MULLA	<u>Fatima</u>
28	S1828450	GAYATRI U YATANOOR	<u>Gayatri</u>
29	S1828451	GEETA B CHAVAN	<u>Geeta</u>
30	S1828453	GEETA PRAKASH PATTANASHETTI	<u>Geeta</u>
31	S1828456	GURURAJ	<u>Gururaj</u>
32	S1828459	HARSHA SANGOND	<u>Harsha</u>
33	S1828460	HASEENABEGUM MUJAWAR	<u>Haseena</u>
34	S1828462	IRAMMA HUGGI	<u>Iramma</u>
35	S1828464	JYOTI P CHOUDRI	<u>Jyoti</u>
36	S1828465	KARTIK KALAKERI	<u>Kartik</u>
37	S1828466	KASHIBAI TALAWAR	<u>Kashibai</u>
38	S1828468	KAVYA TALAKERI	<u>Kavya</u>

Head

Dept. of Physics

G.P.P. Arts, Commerce & V.V.S. Science College, SINDAGI - 586 128

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Principal

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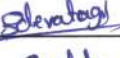
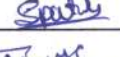
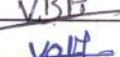
SL NO	Regd No.	StudentName	Sign
39	S1828471	LAXMI B KUMBAR	
40	S1828477	MALA YADRAMI	
41	S1828479	MALINGARAY ADAVI	
42	S1828481	MALLIKARJUN DODAMANI	
43	S1828485	MANJUR RAJAK BALAGANOR	
44	S1828486	MANOJKUMAR BALLARI	
45	S1828498	NINGARAJ KATTIMANI	
46	S1828499	NINGAYYA	
47	S1828500	PATIL PRIYANKA SADANAND	
48	S1828502	PAVITRA KAMBAR	
49	S1828503	POOJA DEVARAMANI	
50	S1828506	PRAMOD RATNAKAR	
51	S1828507	PRASHANT BORAGI	
52	S1828511	PRIYANKA R KUCHABAL	
53	S1828512	RAJASHEKHARAYYASWAMY H	
54	S1828513	RAJU HALLUR	
55	S1828515	RAVI PUJARI	
56	S1828516	RAVUTARAY MALLAPPA PUJARI	
57	S1828517	REKHA RAMPURMATH	
58	S1828518	RENUKA	
59	S1828520	RENUKA DEVANAGAON	
60	S1828522	ROHAN GUTTEDAR	
61	S1828523	SACHIN	
62	S1828526	SAGAR	
63	S1828527	SAGAR SHIVALINGAPPA	
64	S1828529	SANGAMESH	
65	S1828530	SANGANABASU H BAGALUR	
66	S1828531	SANGEETA	
67	S1828532	SANTOSH NANDAGERI	
68	S1828533	SANTOSHA D DODAMANI	
69	S1828534	SATISHAKUMAR KOLLI	
70	S1828535	SAVITA GOUNDI	
71	S1828538	SHARANAMMA	
72	S1828539	SHEEREENBANU	
73	S1828541	SHILPA R MALEGAON	
74	S1828542	SHIVALEELA UKKALI	
75	S1828544	SHREEDEVI KANTIGOND	
76	S1828545	SHREEDHAR BADIGER	
77	S1828546	SHREEDHAR NINGAPPA	
78	S1828547	SHRUTHI M MALLI	

Head
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Principal

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SINDGI-586128. College Code: -

SL NO	Regd No.	StudentName	Sign
79	S1828548	SHRUTI	
80	S1828550	SHRUTI PATALI	
81	S1828551	SHRUTI SAIBANNI	
82	S1828553	SHWETA GANIGER	
83	S1828554	SHWETA OLEKAR	
84	S1828555	SIDDALINGA PUJARI	
85	S1828557	SMITARANI R YATANOOR	
86	S1828559	SOUJANYA BABIN	
87	S1828565	SUNANDA GADAD	
88	S1828566	SUNEETA	
89	S1828567	SURESH M MALAGI	
90	S1828568	SUSHMA	
91	S1828569	SUSHMA DIVATAGI	
92	S1828571	SWATI PATIL	
93	S1828572	TABASUM JAMADAR	
94	S1828573	TAIYABA BANKALAGI	
95	S1828574	TANAVEER	
96	S1828575	TEJASHWINI ILAGER	
97	S1828577	UMME HABIBA	
98	S1828579	V S SUNANDA	
99	S1828580	VEERASANGAYYA	
100	S1828581	VIDYADHAR MANASUNAGI	
101	S1828582	VIDYASHREE HIREMATH	
102	S1828583	VIJAYAKUMAR BIRADAR	
103	S1828585	VINAYAKASING R THAKOOR	
104	S1828587	VINOD BASAPPA PADASHETTI	
105	S1828589	YASMEENBEGUM HANAGIKATT	
106	S1725802	AFREEN MIRJI	
107	S1824611	AISHWARYA JANGINAMATH	


Head
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Principal,
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SINDGI-586128 DIST: Bijapur

Date: 09/1/2021

Department of Physics

: Certificate course :

(only for Fifth semester)

THEORY & PRACTICAL TIME TABLE -2020-21

Days	TIME		Name of the faculty
	THEORY	PRACTICAL	
Monday	4PM to 5PM		1) Prof. M.H.Loni (HOD) 2) Dr.B.G.Math 3) Manjunath Madagonda
Tuesday	4PM to 5PM		
Wednesday	4PM to 5PM		
Thursday	4PM to 5PM		
After completion of all theory		4PM TO 6PM	
		4PM TO 6PM	

Coordinator IQAC
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Head
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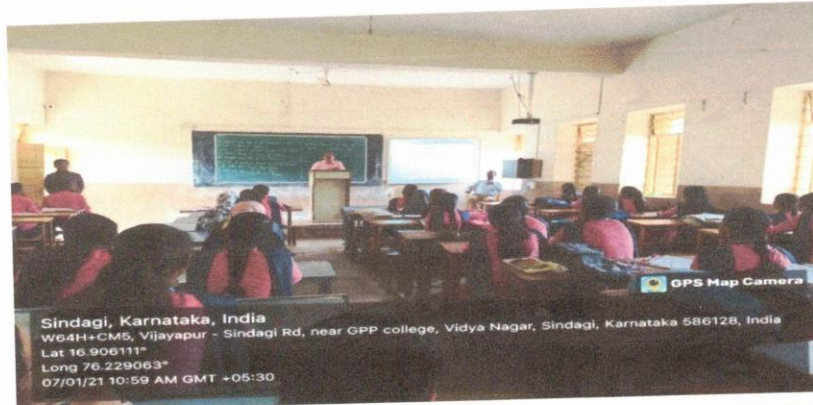
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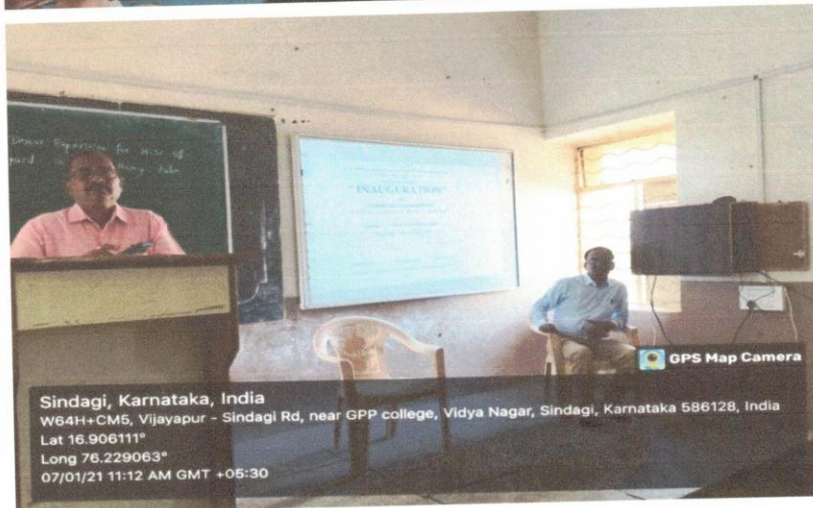
SINDGI-586128 DIST: VIJAYAPUR

DEPARTMENT OF PHYSICS

INUGURATION OF CERTIFICATE COURSE: 2020-21



Sindagi, Karnataka, India
W64H+CM5, Vijayapur - Sindagi Rd, near GPP college, Vidya Nagar, Sindagi, Karnataka 586128, India
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Long 76.229063°
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Sindagi, Karnataka, India
W64H+CM5, Vijayapur - Sindagi Rd, near GPP college, Vidya Nagar, Sindagi, Karnataka 586128, India
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[Signature]
Head
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[Signature]
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G. P. PORWAL ARTS, CO.
V. V. SALIMATH Sc. College
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[Signature]
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SINDGI-586128 DIST: Bijapur

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Department of Physics

Certificate Course-2020-21

"Preparation of Power supply"

Date: 18/2/2021

NOTICE

It is hereby informed to all the students of B.Sc I semester who have participated in Certificate course to attend Practical and Theory exam as per following time table.

Date	Day	Time	Examination	Marks
24/02/2021	Wednesday	4:00pm to 6:00pm	Theory	50
25/02/2021	Thursday	4:00pm to 6:00pm	Practical	50


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Principal,
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SINDGI-586128. College Code: 52

HOD

Date: 24/02/2021

Department of Physics

Certificate Course-2020-21

"Preparation of Power supply"

(Only for Fifth semester)

Tme: 2 Hrs

Question Paper 2020-21

Max Marks: 50

Q.No: 1 Answer any five of the following questions.

10 X 5 = 50

- 1) What is resistor? Explain its color code And series and parallel combination of resistors?
- 2) What is semiconductor? Explain its types? Explain biasing of junction diode?
- 3) What is capacitor? Describe its working And explain different types of capacitor?
- 4) What is rectifier and Explain full wave rectifier using diode?
- 5) a) What is transistor and Zener diode? Explain Working of any one?
- 6) What is filter? Explain L- section and π – section filters?


Coordinator IQAC
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Principal,
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Head
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G.P. PORWAL ARTS, COMMERCE & V.V. SALIMATH SCIENCE COLLEGE, SINDAGI

B.SC. V SEMESTER 2020-21

SUBJECT : Physics

[illegible]

Head
Dept. of Physics
G.P.P. Arts, Commerce & V.V.S. Science

Coordinator IQAC
G. P. PORWAL ARTS, COM &
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Page 1 of 5

Principal,
G. P. Porwal Arts, Comm &
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G.P. PORWAL ARTS, COMMERCE & V.V. SALIMATH SCIENCE COLLEGE, SINDAGI

B.SC. V SEMESTER 2020-21

SUBJECT : Physics

SUBJECT : Physics			21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
SL NO	Regd No.	StudentName																				
1	S1828402	AFREEN BIRADAR	AFreen	AFreen	AFreen	AFreen	AFreen	AFreen	AFreen	AFreen	AFreen	AFreen	AFreen	AFreen	AFreen	AFreen	AFreen	AFreen	AFreen	AFreen	AFreen	AFreen
2	S1828403	AKASH KURUDE	AKash	AKash	AKash	AKash	AKash	AKash	AKash	AKash	AKash	AKash	AKash	AKash	AKash	AKash	AKash	AKash	AKash	AKash	AKash	AKash
3	S1828405	AKSHATA A DESHAPANDE	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata
4	S1828406	AKSHATA BASAVARAJ MASHYAL	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata	AKshata
5	S1828407	AMBARISH B MULASAVALAGI	AMbarish	AMbarish	AMbarish	AMbarish	AMbarish	AMbarish	AMbarish	AMbarish	AMbarish	AMbarish	AMbarish	AMbarish	AMbarish	AMbarish	AMbarish	AMbarish	AMbarish	AMbarish	AMbarish	AMbarish
6	S1828408	AMBIKA	AMbika	AMbika	AMbika	AMbika	AMbika	AMbika	AMbika	AMbika	AMbika	AMbika	AMbika	AMbika	AMbika	AMbika	AMbika	AMbika	AMbika	AMbika	AMbika	AMbika
7	S1828413	ANJALI	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali
8	S1828414	ANJALI PYATI	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali	ANjali
9	S1828415	ANJANA N NIDAGUNDI	ANjana	ANjana	ANjana	ANjana	ANjana	ANjana	ANjana	ANjana	ANjana	ANjana	ANjana	ANjana	ANjana	ANjana	ANjana	ANjana	ANjana	ANjana	ANjana	ANjana
10	S1828417	ASHOK ANKALAGI	AShok	AShok	AShok	AShok	AShok	AShok	AShok	AShok	AShok	AShok	AShok	AShok	AShok	AShok	AShok	AShok	AShok	AShok	AShok	AShok
11	S1828418	ASHWINI	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin
12	S1828419	ASHWINI NAIKODI	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin	AShwin
13	S1828424	BABURAO NANDURAKAR	BAburao	BAburao	BAburao	BAburao	BAburao	BAburao	BAburao	BAburao	BAburao	BAburao	BAburao	BAburao	BAburao	BAburao	BAburao	BAburao	BAburao	BAburao	BAburao	BAburao
14	S1828425	BANGARAMMA	BAngaram	BAngaram	BAngaram	BAngaram	BAngaram	BAngaram	BAngaram	BAngaram	BAngaram	BAngaram	BAngaram	BAngaram	BAngaram	BAngaram	BAngaram	BAngaram	BAngaram	BAngaram	BAngaram	BAngaram
15	S1828426	BASALINGAMMA S BOODIHAI	BAsalin	BAsalin	BAsalin	BAsalin	BAsalin	BAsalin	BAsalin	BAsalin	BAsalin	BAsalin	BAsalin	BAsalin	BAsalin	BAsalin	BAsalin	BAsalin	BAsalin	BAsalin	BAsalin	BAsalin
16	S1828431	BHAGYADEEPA PATTAR	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP
17	S1828432	BHAGYALAXMI MAILAPUR	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP
18	S1828433	BHAGYASHREE	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP
19	S1828435	BHAGYASHREE ARALA	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP
20	S1828437	BHAGYASHREE HUGAR	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP
21	S1828439	BHAGYASHREE WALIKAR	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP
22	S1828440	BHUVANESHWARI S YARAGAL	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP
23	S1828441	BIRADAR ABHISHEK KALLAPPA	ABhis	ABhis	ABhis	ABhis	ABhis	ABhis	ABhis	ABhis	ABhis	ABhis	ABhis	ABhis	ABhis	ABhis	ABhis	ABhis	ABhis	ABhis	ABhis	ABhis
24	S1828444	CHANDRAKANT TAKKALAKI																				

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Sl. NO	Regd No.	StudentName	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
25	S1828445	CHANNABASAPPA BIRADAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
26	S1828446	DEEPA KOPPA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
27	S1828449	FATIMABEGUM MULLA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
28	S1828450	GAYATRI U YATANOOR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
29	S1828451	GEETA B CHAVAN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
30	S1828453	GEETA PRAKASH PATTANASHETTI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
31	S1828456	GURURAJ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
32	S1828459	HARSHA SANGOND	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
33	S1828460	HASEENABEGUM MUJAWAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
34	S1828462	IRAMMA HUGGI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
35	S1828464	JYOTI P CHOUDRI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
36	S1828465	KARTIK KALAKERI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
37	S1828466	KASHIBAI TALAWAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
38	S1828468	KAVYA TALAKERI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
39	S1828471	LAXMI B KUMBAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
40	S1828477	MALA YADRAMI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
41	S1828479	MALINGARAY ADAVI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
42	S1828481	MALLIKARJUN DODAMANI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
43	S1828485	MANJUR RAJAK BALAGANOOR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
44	S1828486	MANOJKUMAR BALLARI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
45	S1828498	NINGARAJ KATTIMANI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
46	S1828499	NINGAYYA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
47	S1828500	PATIL PRIYANKA SADANAND	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
48	S1828502	PAVITRA KAMBAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
49	S1828503	POOJA DEVARAMANI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
50	S1828506	PRAMOD RATNAKAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
51	S1828507	PRASHANT BORAGI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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Sl. NO	Regd No.	StudentName	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
25	S1828445	CHANNABASAPPA BIRADAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
26	S1828446	DEEPA KOPPA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
27	S1828449	FATIMABEGUM MULLA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
28	S1828450	GAYATRI U YATANOOR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
29	S1828451	GEETA B CHAVAN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
30	S1828453	GEETA PRAKASH PATTANASHETTI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
31	S1828456	GURURAJ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
32	S1828459	HARSHA SANGOND	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
33	S1828460	HASEENABEGUM MUJAWAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
34	S1828462	IRAMMA HUGGI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
35	S1828464	JYOTI P CHOUDRI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
36	S1828465	KARTIK KALAKERI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
37	S1828466	KASHIBAI TALAWAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
38	S1828468	KAVYA TALAKERI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
39	S1828471	LAXMI B KUMBAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
40	S1828477	MALA YADRAMI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
41	S1828479	MALINGARAY ADAVI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
42	S1828481	MALLIKARJUN DODAMANI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
43	S1828485	MANJUR RAJAK BALAGANOOR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
44	S1828486	MANOJKUMAR BALLARI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
45	S1828498	NINGARAJ KATTIMANI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
46	S1828499	NINGAYYA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
47	S1828500	PATIL PRIYANKA SADANAND	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
48	S1828502	PAVITRA KAMBAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
49	S1828503	POOJA DEVARAMANI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
50	S1828506	PRAMOD RATNAKAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
51	S1828507	PRASHANT BORAGI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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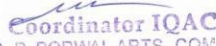
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Sl. NO	Regd No.	StudentName	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
100	S1828581	VIDYADHAR MANASUNAGI																				
101	S1828582	VIDYASHREE HIREMATH	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP
102	S1828583	VIJAYAKUMAR BIRADAR	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP
103	S1828585	VINAYAKASING R THAKOOR	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP
104	S1828587	VINOD BASAPPA PADASHETTI	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP
105	S1828589	YASMEENBEGUM HANAGIKATT	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP
106	S1725802	AFREEN MIRJI																				
107	S1824611	AISHWARYA JANGINAMATH	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP


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100	S1828581	VIDYADHAR MANASUNAGI																																											
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103	S1828585	VINAYAKASING R THAKOOR																																											
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106	S1725802	AFREEN MIRJI																																											
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STUDENT'S NAME Pramod		TOTAL MARKS OBTAINED
CLASS B.Sc. 1 st	SUBJECT Physics	44
ROLL NO. S1828506	DATE	50

1) what is Resistor? and explain its colour code and series and parallel combination of Resistor?

→ Resistor:- it is an electrical component that limits or regulates the flow of electrical current in an electronic circuit.

→ Explanation:-

colour coding in Resistor

Resistor colour Table

colour	digit	multiplier
Black	0	1
Brown	1	10
Red	2	100
Orange	3	1000
Yellow	4	10000
Green	5	100000

Resistors are using very tiny and is challenging to print resistance values on them so colour bands are printed on them to represent the electrical resistor colour these colour bands are known as resistor colour codes the resistor colour code was invented by Radio manufactures association (RMA) in 1920s

Resistor in series:-

Two or more resistors are said to be connected in series when the same amount of current flows through all the resistors in such

Head of Physics the voltage across each resistor in differ

Dept. of Physics G.P. Porwal Arts, Comm & V.V. Salimath College, SINDGI-585128. A series connection if any resistor is broken or a fault occurs the

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of series circuit is simple compounded to a parallel circuit

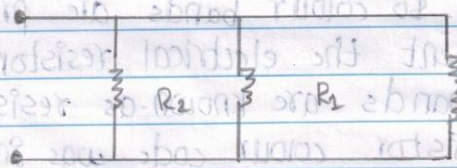
for above circuit the total resistance is given as

$R_{\text{total}} = R_1 + R_2 + R_3 + \dots + R_n$
The total resistance of the system is just the total sum of individual resistances

Resistors in Parallel:

Two or more resistors are said to be connected in parallel when the voltage is the same across all the resistors. In such circuits the current is branched out and recombined when branches meet at a common point.

A resistor or any other component can be connected or disconnected easily without affecting other elements in a parallel circuit.



$$\frac{1}{R_{\text{total}}} = \frac{1}{R_1} + \frac{1}{R_2} + \dots + \frac{1}{R_n}$$

The sum of reciprocals of resistance of an individual resistance is the total reciprocal resistance of the system.

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to the circuit in order to limit the current into the diode. It is connected to the positive terminal of the dc. It works in such a way the reverse-bias can also work in break down condition. we do not use ordinary junction diode because the low power rating diode because they can get damaged when we apply reverse bias above its breakdown voltage when the maximum load current is applied the zener diode current should always be maximum.

since the input voltage and the regulating required output voltage is known as easier to choose a zener diode with a voltage approximately equal to the load voltage i.e. $V_{Z \approx V_L}$.

The circuit diagram of a voltage regulator using a zener diode is shown.

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what is extrinsic semi-conductors?
explain biasing of junction diode?

⇒ extrinsic semi-conductors

are semi-conductors that are doped with specific impurities the impurity modifies the electrical properties of the semi-conductor and makes it more suitable for electronic device such as diode and transistors.

Biasing → Before using a PN-junction as a rectifying device, we need to firstly bias it connect a voltage potential across it.

Reverse Bias :- It refers to an external voltage which increases potential barrier when a diode is connected in RB. A positive voltage is applied to the P-type material. electrons are attracted towards the positive electrode from junction and the holes in P-type are also attracted away from junction towards negative electrodes.

The net result is that depletion layer grows wider due to lack of electrons and holes. A high potential barrier is created thus preventing current flow from semiconductor.

However a very small voltage current does flow through junction which could be measured as 5×10^{-6} micro amperes at a condition it is reverse bias voltage applied to the diode is increased at a high enough value it will



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i)
→

Resistor :- It is an electrical component that limits or regulates the flow of electrical current in an electronic circuit.

Explanation :-

colour coding in resistor

Resistor colour Table

colour	Digit	multiplies
Black	0	1
Brown	1	10
Red	2	100
Orange	3	1000
Yellow	4	10000
Green	5	100000

8 - Resistors are using varying and is changing to print resistance value them to represent the electrical resistor colour these colour bands are known as resistor colour codes the resistor colour code was invented in the 1920s by the Radio manufacturers association (RMA)

Resistors in Series :-

Two or more resistors are said to be connected in series when the same amount of current flows through the resistors in such circuits the voltage across each resistor is

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the total reciprocal resistance of the system

2) → Extrinsic semiconductors are semiconductors that doped with specific impurities the impurity modifies the electrical properties of the semiconductor and makes it more suitable for electronic devices such as diodes and transistors.

Biasing: Before using a PN-junction as a rectifying device, we need to properly bias it connect a voltage potential across it

Reverse Bias: It refers to an external voltage which increases potential barrier when a diode is connected in RB - a positive voltage is applied to the P-type material electrons are attracted towards the positive electrode away from junction towards negative electrode.

The net result is that Depletion layer grows wider due to lack of electrons and holes. A high potential barrier is erected thus preventing current flow

Head from semiconductor.

However a very small voltage current flows through junction which could be measured in micro amperes at a

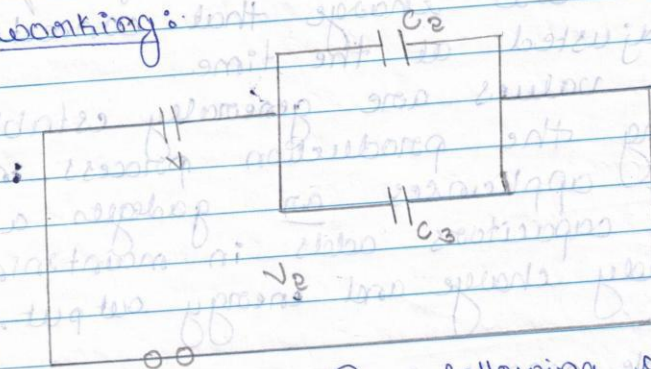


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3)
→

As we know capacitor is one of the basic components used in an electrical circuit like resistors, inductors and many more the capacitor is a passive device. That is available.

Working:



8 Consider The following circuit which shows the working principle of a parallel plate capacitor with a dielectric. Between them apply the voltage was shown in the circuit with plate 1 being positive & plate 2 being negative when the voltage is supplied to the plates. plate 1 will carry a positive charge from a battery and plate 2 will carry a positive charge from the battery and plate 1

Head The voltage is supplied for a period of time. During which time the capacitor is charged to its maximum and its holding charged to its maximum and its

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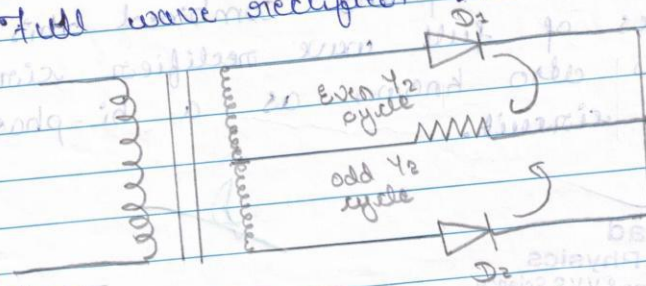
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rectifier :-

The rectifier is an electronic device that converts an alternating current into a direct current by using one or more PN-junction diodes.

The full wave rectifier converts both halves of each wave form cycle into pulsating AC (signal using four rectification diode). The previous power rectification are discussed ways of reducing the ripple (or) voltage variation on a direct DC voltage. one method to improve on this is to use every half-cycle of the voltage in put voltage instead of every other half cycle the circuit which allows us to do this is called a full wave rectifier.

Full wave rectifier circuit :-



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Current flows when D_1 conducts

Current flows when D_2 conducts



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5) Zener diode :- Zener diode is oscillator semi-conductor with p-n junction, that is specifically designed to work in the reverse biased condition when forward biased condition it to be happen like a normal signal diode that but when the reverse voltage is applied to it voltage remains constant for a wide range of current due to this feature it is used as a voltage regulators in dc circuit the primary objective of the zener diode as a voltage regulator is to dc circuit then to maintain a constant voltages. let us say if zener voltage of 8V is used then the voltage becomes constant at 8V and it does not change.

Zener diode as a voltage Regulator:-

There is a series resistor connected to the circuit in order to limit the current into the diode, it is connected to the positive terminal of the dc it works in such a way the reverse condition we do not use

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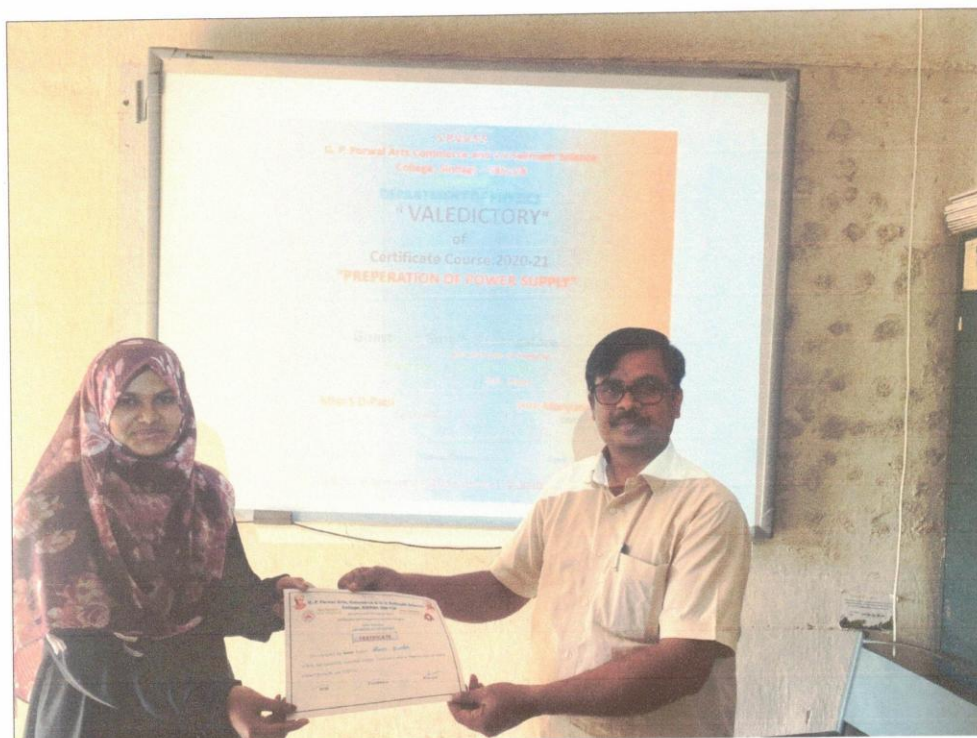

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