

*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-I) Subject: Electronics (Paper- I)

**Session: 2020 - 2021**

**Unit Test - I**

Name of the Teacher: Dr. S. M. Ghatole

Date: 23/09/2020


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	ALONE YASH ANIL	7
2	BANGDE ANSH PURISHOTTAM	10
3	BASOPURKAR SARAS PRAKASH	12
4	BOMLE TANMAY VIJAY	AA
5	BOTHLIKAR MUNISH SADASHIV	10
6	BODKHE PRATIKSHA DILIP	7
7	CHATAP DIPTI NILKANTH	10
8	DATAR MITALI SUNIL	10
9	DESHMUKH SOHAM PRASHANT	11
10	DESHPANDE MUKTA RAVINDRA	12
11	DINESHWAR PUNAM BHOLARAM	7
12	DURGE RUPALI RAJU	10
13	GADDGE ANIKET PARSHURAM	9
14	GEETHEY PRATHA RAJESH	12
15	KALE NISHANT UMRAO	12
16	KIRNAKE NALINI DEEPAK	13
17	MADAVI PIYUSH PUNDLIK	15
18	MANDVE SAMEER CHANDU	11
19	MAHAKULKAR RAHUL VINODRAO	11
20	MISHRA PRASHANT RAMTIRTAN	AA
21	NAKADE PRATIKSHA AJARAOJI	AA
22	NAYAK RUPALI RAVINDRA	11
23	POHARE SHUBHAM SHASHIKANT	AA
24	PRADDHAN MAHESH AMRUTANJAN	5
25	RAUT SHRADDHA VISHWAS	7
26	SATHWANE SHUBHAM RAJENDRA	10
27	SHEIKH SIMRAN FATEMA	11
28	TINGURIA ADDARSH ATUL	9
29	UIKEY MUSKAN MANISH	AA
30	VUAS JIGAR VIRBHADRANATH	AA
31	WANKHEDE DIKSHA SANJAY	9

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BANSOD ROHAN RAMBHAU	12
2	BACHALE HIMANSHU JAGESHWAR	10

3	BHENDE SAMIDHA ABHAY	AA
4	CHAUDHARI SHARVARI SANJAY	12
5	DURGE RISHIKA JAGDISH	10
6	FASATE ABHISHEK NARENDRA	9
7	GHAGARE HARSHAL YUVRAJ	14
8	GHUGAL KALYANI PANDHARI	10
9	GURAO TEJAS VINOD	9
10	KOLHE SAAKSHI KANCHAN	AA
11	KORDE TANISHQ ARVIND	AA
12	KULMETHE JAYASHRI VISHNU	13
13	LANJEWAR JYOTI RAMESH	14
14	LOKHANDE AVANTIKA GURUDDAS	10
15	MASKE TANMAY PRADIPRAO	10
16	MENDHE ANIKET JAGDISH	11
17	MESHARAM ANCHAL JIYALAL	12
18	MISHRA NIKITA GAYAPRASADD	10
19	NANDANWAR YOGESH WAMAN	10
20	NEWARE ATHARVA RAMESHRAO	8
21	PADMAWAR SAMRUDHI SANJAY	7
22	PARDHI JANHAVI PRABHAKAR	AA
23	PARISE PRATHAMESH JITENDRA	AA
24	PIMPALKAR DNYANESH JAYANT	12
25	POUNIKAR PRANAYA SURESH	11
26	RATHOD VISHAL RAMLAL	11
27	ROKADE ARPOIT GANESH	AA
28	SHIVANKAR DHANSHRI ANANDRAO	AA
29	SUTSONKAR KALYANI SANTOSH	10
30	THAKUR SIYA AMARSINGH	7
31	UPASE KETKI SHIVDAS	10
32	WARKHADE PRANAY SOPAN	AA
33	ZOMBADEBHUSHAN KISAN	AA

  
**Prof. S. M. Ghatole**  
**Professor & Head**  
**Department of Electronics,**  
**Shri Shivaji Science College,**  
**Congress Nagar, Nagpur.**

**Bachelor of Science (B.Sc.) Semester-I Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-I Topic: Unit-I)**  
**Unit Test -I**

**Time: One Hour]**

**[Maximum Marks: 20**

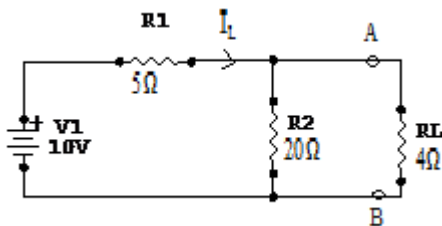
**Date:23-09-2020**

**Note:**

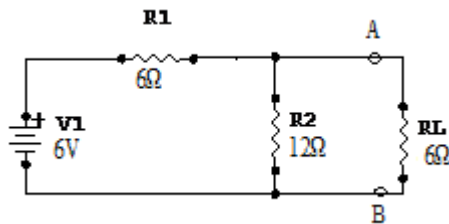
- (1) All questions are compulsory and carry equal marks.
  - (2) Draw neat and labelled diagram wherever necessary.
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**Attempt any four. (20 Marks)**

- 1) State and explain KVL and KCL.
- 2) Find current through the load and voltage across the load by Norton's theorem in the given circuit.



- 3) Draw Thevenin's equivalent circuit and find the voltage across  $R_L$ .



- 4) Explain ideal voltage and current sources. Draw their I-V characteristics and symbols. State and explain Maximum Power Transfer theorem.

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-I) Subject: Electronics (Paper- I)  
Session: 2020 - 2021

**Unit Test - II**

Name of the Teacher: Dr. S. M. Ghatole

Date: 12/12/2020


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	ALONE YASH ANIL	10
2	BANGDE ANSH PURISHOTTAM	11
3	BASOPURKAR SARAS PRAKASH	10
4	BOMLE TANMAY VIJAY	AA
5	BOTHLIKAR MUNISH SADASHIV	9
6	BODKHE PRATIKSHA DILIP	10
7	CHATAP DIPTI NILKANTH	11
8	DATAR MITALI SUNIL	12
9	DESHMUKH SOHAM PRASHANT	AA
10	DESHPANDE MUKTA RAVINDRA	11
11	DINESHWAR PUNAM BHOLARAM	11
12	DURGE RUPALI RAJU	8
13	GADDGE ANIKET PARSHURAM	10
14	GEETHEY PRATHA RAJESH	13
15	KALE NISHANT UMRAO	12
16	KIRNAKE NALINI DEEPAK	12
17	MADAVI PIYUSH PUNDLIK	12
18	MANDVE SAMEER CHANDU	10
19	MAHAKULKAR RAHUL VINODRAO	13
20	MISHRA PRASHANT RAMTIRTAN	11
21	NAKADE PRATIKSHA AJARAOJI	AA
22	NAYAK RUPALI RAVINDRA	10
23	POHARE SHUBHAM SHASHIKANT	9
24	PRADDHAN MAHESH AMRUTANJAN	AA
25	RAUT SHRADDHA VISHWAS	AA
26	SATHWANE SHUBHAM RAJENDRA	10
27	SHEIKH SIMRAN FATEMA	11
28	TINGURIA ADDARSH ATUL	10
29	UIKEY MUSKAN MANISH	9
30	VUAS JIGAR VIRBHADRANATH	7
31	WANKHEDE DIKSHA SANJAY	AA

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BANSOD ROHAN RAMBHAU	12

2	BACHALE HIMANSHU JAGESHWAR	12
3	BHENDE SAMIDHA ABHAY	10
4	CHAUDHARI SHARVARI SANJAY	10
5	DURGE RISHIKA JAGDISH	AA
6	FASATE ABHISHEK NARENDRA	10
7	GHAGARE HARSHAL YUVRAJ	12
8	GHUGAL KALYANI PANDHARI	11
9	GURAO TEJAS VINOD	10
10	KOLHE SAAKSHI KANCHAN	9
11	KORDE TANISHQ ARVIND	AA
12	KULMETHE JAYASHRI VISHNU	11
13	LANJEWAR JYOTI RAMESH	15
14	LOKHANDE AVANTIKA GURUDDAS	11
15	MASKE TANMAY PRADIPRAO	9
16	MENDHE ANIKET JAGDISH	5
17	MESHARAM ANCHAL JIYALAL	6
18	MISHRA NIKITA GAYAPRASADD	9
19	NANDANWAR YOGESH WAMAN	10
20	NEWARE ATHARVA RAMESHRAO	AA
21	PADMAWAR SAMRUDHI SANJAY	AA
22	PARDHI JANHAVI PRABHAKAR	5
23	PARISE PRATHAMESH JITENDRA	4
24	PIMPALKAR DNYANESH JAYANT	10
25	POUNIKAR PRANAYA SURESH	11
26	RATHOD VISHAL RAMLAL	AA
27	ROKADE ARPOIT GANESH	AA
28	SHIVANKAR DHANSHRI ANANDRAO	6
29	SUTSONKAR KALYANI SANTOSH	10
30	THAKUR SIYA AMARSINGH	AA
31	UPASE KETKI SHIVDAS	11
32	WARKHADE PRANAY SOPAN	AA
33	ZOMBADEBHUSHAN KISAN	4

  
**Prof . S. M. Ghatole**  
**Professor & Head**  
**Department of Electronics,**  
**Shri Shivaji Scienca Collage,**  
**Congress Nagar, Nagpur,**

**Bachelor of Science (B.Sc.) Semester - I Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-I Topic: Unit-II & III)**  
**Unit Test -II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:12-12-2020**

**Note:**

- (1) All questions are compulsory and carry equal marks.
  - (2) Draw neat and labelled diagram wherever necessary.
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**Attempt any four. (20 Marks)**

- 1) What is the difference between R.M.S. and the average values of a sinusoidal voltage?
- 2) Draw and explain R-L-C series. Also draw series resonance curve.
- 3) Draw phasor diagrams and explain ac circuit with (i) resistance only, (ii) inductance only, (iii) capacitance only.
- 4) Explain the terms: Impedance, Inductive reactance and capacitive reactance.
- 5) Define : peak value, average value, rms value, frequency, period and Wavelength.

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-I) Subject: Electronics (Paper- II)

Session: 2020 - 2021

**Unit Test - I**

Name of the Teacher: Dr. M. J. Hedau

Date: 06/10/2020


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	ALONE YASH ANIL	12
2	BANGDE ANSH PURISHOTTAM	13
3	BASOPURKAR SARAS PRAKASH	14
4	BOMLE TANMAY VIJAY	AA
5	BOTHLIKAR MUNISH SADASHIV	11
6	BODKHE PRATIKSHA DILIP	10
7	CHATAP DIPTI NILKANTH	12
8	DATAR MITALI SUNIL	10
9	DESHMUKH SOHAM PRASHANT	14
10	DESHPANDE MUKTA RAVINDRA	16
11	DINESHWAR PUNAM BHOLARAM	10
12	DURGE RUPALI RAJU	11
13	GADDGE ANIKET PARSHURAM	10
14	GEETHEY PRATHA RAJESH	14
15	KALE NISHANT UMRAO	10
16	KIRNAKE NALINI DEEPAK	13
17	MADAVI PIYUSH PUNDLIK	17
18	MANDVE SAMEER CHANDU	10
19	MAHAKULKAR RAHUL VINODRAO	14
20	MISHRA PRASHANT RAMTIRTAN	12
21	NAKADE PRATIKSHA AJARAOJI	AA
22	NAYAK RUPALI RAVINDRA	AA
23	POHARE SHUBHAM SHASHIKANT	10
24	PRADDHAN MAHESH AMRUTANJAN	4
25	RAUT SHRADDHA VISHWAS	6
26	SATHWANE SHUBHAM RAJENDRA	11
27	SHEIKH SIMRAN FATEMA	11
28	TINGURIA ADDARSH ATUL	10
29	UIKEY MUSKAN MANISH	AA
30	VUAS JIGAR VIRBHADRANATH	6
31	WANKHEDE DIKSHA SANJAY	11

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BANSOD ROHAN RAMBHAU	15
2	BACHALE HIMANSHU JAGESHWAR	10
3	BHENDE SAMIDHA ABHAY	12
4	CHAUDHARI SHARVARI SANJAY	12
5	DURGE RISHIKA JAGDISH	AA

6	FASATE ABHISHEK NARENDRA	9
7	GHAGARE HARSHAL YUVRAJ	13
8	GHUGAL KALYANI PANDHARI	AA
9	GURAO TEJAS VINOD	10
10	KOLHE SAAKSHI KANCHAN	AA
11	KORDE TANISHQ ARVIND	7
12	KULMETHE JAYASHRI VISHNU	13
13	LANJEWAR JYOTI RAMESH	14
14	LOKHANDE AVANTIKA GURUDDAS	12
15	MASKE TANMAY PRADIPRAO	10
16	MENDHE ANIKET JAGDISH	12
17	MESHARAM ANCHAL JIYALAL	16
18	MISHRA NIKITA GAYAPRASADD	11
19	NANDANWAR YOGESH WAMAN	AA
20	NEWARE ATHARVA RAMESHRAO	7
21	PADMAWAR SAMRUDHI SANJAY	10
22	PARDHI JANHAVI PRABHAKAR	11
23	PARISE PRATHAMESH JITENDRA	10
24	PIMPALKAR DNYANESH JAYANT	12
25	POUNIKAR PRANAYA SURESH	11
26	RATHOD VISHAL RAMLAL	10
27	ROKADE ARPOIT GANESH	AA
28	SHIVANKAR DHANSHRI ANANDRAO	10
29	SUTSONKAR KALYANI SANTOSH	10
30	THAKUR SIYA AMARSINGH	9
31	UPASE KETKI SHIVDAS	10
32	WARKHADE PRANAY SOPAN	AA
33	ZOMBADEBHUSHAN KISAN	7

  
**Prof . S. M. Ghatole**  
**Professor & Head**  
**Department of Electronics,**  
**Shri Shivaji Science Collage,**  
**Congress Nagar, Nagpur,**



**Bachelor of Science (B.Sc.) Semester—I Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-II Topic: Unit-I)**  
**Unit Test -I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:06-10-2020**

**Note:**

- (1) All questions are compulsory and carry equal marks.
  - (2) Draw neat and labelled diagram wherever necessary.
- 

**Attempt any four. (20 Marks)**

- 1) Explain NOR and EX-NOR gate with truth table, Boolean equation and symbol.
- 2) What is an Excess 3 code and explain the following number in XS-3 code:  
(1) 7754
- 3) Convert the following number.  
(1)  $(11010)_2 = (X)_{10}$       (2)  $(AB.C)_{16} = (X)_8$       (3)  $(32)_{10} = (X)_2$
- 4) Convert  $(22.61)_{10}$  into binary octal and hexadecimal number?
- 5) Explain the term (1) One's complement (2) Two's complement with suitable example.

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-I) Subject: Electronics (Paper- II)  
Session: 2020 - 2021

**Unit Test - II**

Name of the Teacher: Dr. M. J. Hedau

Date: 18/12/2020


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	ALONE YASH ANIL	10
2	BANGDE ANSH PURISHOTTAM	12
3	BASOPURKAR SARAS PRAKASH	12
4	BOMLE TANMAY VIJAY	10
5	BOTHLIKAR MUNISH SADASHIV	14
6	BODKHE PRATIKSHA DILIP	11
7	CHATAP DIPTI NILKANTH	14
8	DATAR MITALI SUNIL	14
9	DESHMUKH SOHAM PRASHANT	11
10	DESHPANDE MUKTA RAVINDRA	16
11	DINESHWAR PUNAM BHOLARAM	10
12	DURGE RUPALI RAJU	AA
13	GADDGE ANIKET PARSHURAM	AA
14	GEETHEY PRATHA RAJESH	12
15	KALE NISHANT UMRAO	12
16	KIRNAKE NALINI DEEPAK	14
17	MADAVI PIYUSH PUNDLIK	15
18	MANDVE SAMEER CHANDU	12
19	MAHAKULKAR RAHUL VINODRAO	11
20	MISHRA PRASHANT RAMTIRTAN	AA
21	NAKADE PRATIKSHA AJARAOJI	AA
22	NAYAK RUPALI RAVINDRA	11
23	POHARE SHUBHAM SHASHIKANT	10
24	PRADDHAN MAHESH AMRUTANJAN	9
25	RAUT SHRADDHA VISHWAS	12
26	SATHWANE SHUBHAM RAJENDRA	10
27	SHEIKH SIMRAN FATEMA	11
28	TINGURIA ADDARSH ATUL	11
29	UIKEY MUSKAN MANISH	AA
30	VUAS JIGAR VIRBHADRANATH	11
31	WANKHEDE DIKSHA SANJAY	12

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BANSOD ROHAN RAMBHAU	12

2	BACHALE HIMANSHU JAGESHWAR	10
3	BHENDE SAMIDHA ABHAY	AA
4	CHAUDHARI SHARVARI SANJAY	12
5	DURGE RISHIKA JAGDISH	10
6	FASATE ABHISHEK NARENDRA	9
7	GHAGARE HARSHAL YUVRAJ	14
8	GHUGAL KALYANI PANDHARI	10
9	GURAO TEJAS VINOD	9
10	KOLHE SAAKSHI KANCHAN	AA
11	KORDE TANISHQ ARVIND	AA
12	KULMETHE JAYASHRI VISHNU	13
13	LANJEWAR JYOTI RAMESH	14
14	LOKHANDE AVANTIKA GURUDDAS	10
15	MASKE TANMAY PRADIPRAO	10
16	MENDHE ANIKET JAGDISH	11
17	MESHARAM ANCHAL JIYALAL	12
18	MISHRA NIKITA GAYAPRASADD	10
19	NANDANWAR YOGESH WAMAN	10
20	NEWARE ATHARVA RAMESHRAO	8
21	PADMAWAR SAMRUDHI SANJAY	7
22	PARDHI JANHAVI PRABHAKAR	AA
23	PARISE PRATHAMESH JITENDRA	AA
24	PIMPALKAR DNYANESH JAYANT	12
25	POUNIKAR PRANAYA SURESH	11
26	RATHOD VISHAL RAMLAL	11
27	ROKADE ARPOIT GANESH	AA
28	SHIVANKAR DHANSHRI ANANDRAO	AA
29	SUTSONKAR KALYANI SANTOSH	10
30	THAKUR SIYA AMARSINGH	7
31	UPASE KETKI SHIVDAS	10
32	WARKHADE PRANAY SOPAN	AA
33	ZOMBADEBHUSHAN KISAN	AA

  
**Prof . S. M. Ghatole**  
**Professor & Head**  
**Department of Electronics,**  
**Shri Shivaji Scienca Collage,**  
**Congress Nagar, Nagpur,**

**Bachelor of Science (B.Sc.) Semester—I Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-II Topic: Unit-II)**  
**Unit Test-II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:18-12-2020**

**Note:**

- (1) All questions are compulsory and carry equal marks.
  - (2) Draw neat and labelled diagram wherever necessary.
- 

**Attempt any four. (20 Marks)**

- 1) Explain different types of Boolean law.
- 2) Explain De'morgans theorem.
- 3) Explain the working of Half adder and Full adder.
- 4) Explain NOR and EX-NOR gate with truth table, Boolean equation and symbol.
- 5) Explain all types of logic gates

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-II) Subject: Electronics (Paper- I)  
Session: 2020 - 2021

**Unit Test - I**

Name of the Teacher: Dr. S. M. Ghatole  
Batch: M3 (PEM)


Date: 01/02/2021

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	ALONE YASH ANIL	14
2	BANGDE ANSH PURISHOTTAM	11
3	BASOPURKAR SARAS PRAKASH	12
4	BOMLE TANMAY VIJAY	10
5	BOTHLIKAR MUNISH SADASHIV	12
6	BODKHE PRATIKSHA DILIP	11
7	CHATAP DIPTI NILKANTH	12
8	DATAR MITALI SUNIL	9
9	DESHMUKH SOHAM PRASHANT	11
10	DESHPANDE MUKTA RAVINDRA	13
11	DINESHWAR PUNAM BHOLARAM	7
12	DURGE RUPALI RAJU	11
13	GADDGE ANIKET PARSHURAM	AA
14	GEETHEY PRATHA RAJESH	14
15	KALE NISHANT UMRAO	12
16	KIRNAKE NALINI DEEPAK	14
17	MADAVI PIYUSH PUNDLIK	12
18	MANDVE SAMEER CHANDU	AA
19	MAHAKULKAR RAHUL VINODRAO	11
20	MISHRA PRASHANT RAMTIRTAN	10
21	NAKADE PRATIKSHA AJARAOJI	AA
22	NAYAK RUPALI RAVINDRA	11
23	POHARE SHUBHAM SHASHIKANT	AA
24	PRADDHAN MAHESH AMRUTANJAN	9
25	RAUT SHRADDHA VISHWAS	AA
26	SATHWANE SHUBHAM RAJENDRA	10
27	SHEIKH SIMRAN FATEMA	11
28	TINGURIA ADDARSH ATUL	AA
29	UIKEY MUSKAN MANISH	AA
30	VUAS JIGAR VIRBHADRANATH	AA
31	WANKHEDE DIKSHA SANJAY	AA

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BANSOD ROHAN RAMBHAU	15
2	BACHALE HIMANSHU JAGESHWAR	12
3	BHENDE SAMIDHA ABHAY	10

4	CHAUDHARI SHARVARI SANJAY	12
5	DURGE RISHIKA JAGDISH	AA
6	FASATE ABHISHEK NARENDRA	AA
7	GHAGARE HARSHAL YUVRAJ	12
8	GHUGAL KALYANI PANDHARI	12
9	GURAO TEJAS VINOD	13
10	KOLHE SAAKSHI KANCHAN	10
11	KORDE TANISHQ ARVIND	AA
12	KULMETHE JAYASHRI VISHNU	12
13	LANJEWAR JYOTI RAMESH	14
14	LOKHANDE AVANTIKA GURUDDAS	11
15	MASKE TANMAY PRADIPRAO	14
16	MENDHE ANIKET JAGDISH	15
17	MESHARAM ANCHAL JIYALAL	AA
18	MISHRA NIKITA GAYAPRASADD	10
19	NANDANWAR YOGESH WAMAN	13
20	NEWARE ATHARVA RAMESHRAO	11
21	PADMAWAR SAMRUDHI SANJAY	10
22	PARDHI JANHAVI PRABHAKAR	12
23	PARISE PRATHAMESH JITENDRA	12
24	PIMPALKAR DNYANESH JAYANT	AA
25	POUNIKAR PRANAYA SURESH	AA
26	RATHOD VISHAL RAMLAL	13
27	ROKADE ARPOIT GANESH	AA
28	SHIVANKAR DHANSHRI ANANDRAO	10
29	SUTSONKAR KALYANI SANTOSH	10
30	THAKUR SIYA AMARSINGH	12
31	UPASE KETKI SHIVDAS	7
32	WARKHADE PRANAY SOPAN	AA
33	ZOMBADEBHUSHAN KISAN	AA

  
 Prof . S. M. Ghatole  
 Professor & Head  
 Department of Electronics,  
 Shri Shivaji Sciencia Collage,  
 Congress Nagar, Nagpur.

**Bachelor of Science (B.Sc.) Semester-II Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-I)**  
**Unit Test-I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:01-02-2021**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat sketches wherever necessary.

**Attempt any two. (20 Marks)**

- 1) What is ripple counter? Draw the logic diagram of 4 bit ripple up counter and explain its working with truth table and timing diagram.
- 2) What is PN junction? Explain the formation of depletion region and potential barrier. Discuss the working of PN junction in forward and reverse bias modes with its characteristics.
- 3) Draw and explain 4-bit ring counter and truth table.

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-II) Subject: Electronics (Paper- I)

Session: 2020 - 2021

**Unit Test - II**

Name of the Teacher: Dr. S. M. Ghatole

Date: 13/03/2021

Batch: M3 (PEM)


<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	ALONE YASH ANIL	AA
2	BANGDE ANSH PURISHOTTAM	14
3	BASOPURKAR SARAS PRAKASH	15
4	BOMLE TANMAY VIJAY	11
5	BOTHLIKAR MUNISH SADASHIV	10
6	BODKHE PRATIKSHA DILIP	AA
7	CHATAP DIPTI NILKANTH	14
8	DATAR MITALI SUNIL	15
9	DESHMUKH SOHAM PRASHANT	11
10	DESHPANDE MUKTA RAVINDRA	12
11	DINESHWAR PUNAM BHOLARAM	10
12	DURGE RUPALI RAJU	AA
13	GADDGE ANIKET PARSHURAM	AA
14	GEETAY PRATHA RAJESH	14
15	KALE NISHANT UMRAO	12
16	KIRNAKE NALINI DEEPAK	11
17	MADAVI PIYUSH PUNDLIK	16
18	MANDVE SAMEER CHANDU	11
19	MAHAKULKAR RAHUL VINODRAO	12
20	MISHRA PRASHANT RAMTIRTAN	AA
21	NAKADE PRATIKSHA AJARAOJI	10
22	NAYAK RUPALI RAVINDRA	11
23	POHARE SHUBHAM SHASHIKANT	10
24	PRADDHAN MAHESH AMRUTANJAN	AA
25	RAUT SHRADDHA VISHWAS	AA
26	SATHWANE SHUBHAM RAJENDRA	13
27	SHEIKH SIMRAN FATEMA	11
28	TINGURIA ADDARSH ATUL	12
29	UIKEY MUSKAN MANISH	AA
30	VUAS JIGAR VIRBHADRANATH	AA
31	WANKHEDE DIKSHA SANJAY	10

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BANSOD ROHAN RAMBHAU	14
2	BACHALE HIMANSHU JAGESHWAR	13
3	BHENDE SAMIDHA ABHAY	10
4	CHAUDHARI SHARVARI SANJAY	AA



5	DURGE RISHIKA JAGDISH	11
6	FASATE ABHISHEK NARENDRA	13
7	GHAGARE HARSHAL YUVRAJ	AA
8	GHUGAL KALYANI PANDHARI	10
9	GURAO TEJAS VINOD	10
10	KOLHE SAAKSHI KANCHAN	14
11	KORDE TANISHQ ARVIND	AA
12	KULMETHE JAYASHRI VISHNU	8
13	LANJEWAR JYOTI RAMESH	12
14	LOKHANDE AVANTIKA GURUDDAS	12
15	MASKE TANMAY PRADIPRAO	10
16	MENDHE ANIKET JAGDISH	14
17	MESHARAM ANCHAL JIYALAL	12
18	MISHRA NIKITA GAYAPRASADD	AA
19	NANDANWAR YOGESH WAMAN	10
20	NEWARE ATHARVA RAMESHRAO	AA
21	PADMAWAR SAMRUDHI SANJAY	11
22	PARDHI JANHAVI PRABHAKAR	10
23	PARISE PRATHAMESH JITENDRA	14
24	PIMPALKAR DNYANESH JAYANT	12
25	POUNIKAR PRANAYA SURESH	12
26	RATHOD VISHAL RAMLAL	15
27	ROKADE ARPOIT GANESH	7
28	SHIVANKAR DHANSHRI ANANDRAO	11
29	SUTSONKAR KALYANI SANTOSH	10
30	THAKUR SIYA AMARSINGH	AA
31	UPASE KETKI SHIVDAS	AA
32	WARKHADE PRANAY SOPAN	AA
33	ZOMBADEBHUSHAN KISAN	AA

  
 Prof . S. M. Ghatole  
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 Department of Electronics,  
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 Congress Nagar, Nagpur.

**Bachelor of Science (B.Sc.) Semester-II Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-I)**  
**Unit Test -II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:13-03-2021**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat sketches wherever necessary.

**Attempt any four. (20 Marks)**

- 1) Explain the construction and working of JFET.
- 2) What is MOSFET? Explain its construction.
- 3) Differentiate between FET and BJT.
- 4) Explain construction and working of UJT.
- 5) Describe the working and characteristics of SCR.

\*\*\*\*

*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-II) Subject: Electronics (Paper- II)

Session: - 2020 - 2021

**Unit Test - I**

Name of the Teacher: Dr. M. J. Hedau

Date: 20/02/2021


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	ALONE YASH ANIL	16
2	BANGDE ANSH PURISHOTTAM	12
3	BASOPURKAR SARAS PRAKASH	11
4	BOMLE TANMAY VIJAY	12
5	BOTHLIKAR MUNISH SADASHIV	10
6	BODKHE PRATIKSHA DILIP	AA
7	CHATAP DIPTI NILKANTH	12
8	DATAR MITALI SUNIL	14
9	DESHMUKH SOHAM PRASHANT	11
10	DESHPANDE MUKTA RAVINDRA	13
11	DINESHWAR PUNAM BHOLARAM	11
12	DURGE RUPALI RAJU	14
13	GADDGE ANIKET PARSHURAM	10
14	GEETAY PRATHA RAJESH	12
15	KALE NISHANT UMRAO	15
16	KIRNAKE NALINI DEEPAK	13
17	MADAVI PIYUSH PUNDLIK	13
18	MANDVE SAMEER CHANDU	15
19	MAHAKULKAR RAHUL VINODRAO	10
20	MISHRA PRASHANT RAMTIRTAN	9
21	NAKADE PRATIKSHA AJARAOJI	5
22	NAYAK RUPALI RAVINDRA	11
23	POHARE SHUBHAM SHASHIKANT	13
24	PRADDHAN MAHESH AMRUTANJAN	10
25	RAUT SHRADDHA VISHWAS	AA
26	SATHWANE SHUBHAM RAJENDRA	AA
27	SHEIKH SIMRAN FATEMA	11
28	TINGURIA ADDARSH ATUL	AA
29	UIKEY MUSKAN MANISH	AA
30	VUAS JIGAR VIRBHADRANATH	AA
31	WANKHEDE DIKSHA SANJAY	10

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BANSOD ROHAN RAMBHAU	AA
2	BACHALE HIMANSHU JAGESHWAR	10
3	BHENDE SAMIDHA ABHAY	12
4	CHAUDHARI SHARVARI SANJAY	11
5	DURGE RISHIKA JAGDISH	16

6	FASATE ABHISHEK NARENDRA	12
7	GHAGARE HARSHAL YUVRAJ	14
8	GHUGAL KALYANI PANDHARI	15
9	GURAO TEJAS VINOD	11
10	KOLHE SAAKSHI KANCHAN	12
11	KORDE TANISHQ ARVIND	10
12	KULMETHE JAYASHRI VISHNU	15
13	LANJEWAR JYOTI RAMESH	16
14	LOKHANDE AVANTIKA GURUDDAS	14
15	MASKE TANMAY PRADIPRAO	12
16	MENDHE ANIKET JAGDISH	AA
17	MESHARAM ANCHAL JIYALAL	12
18	MISHRA NIKITA GAYAPRASADD	AA
19	NANDANWAR YOGESH WAMAN	10
20	NEWARE ATHARVA RAMESHRAO	12
21	PADMAWAR SAMRUDHI SANJAY	11
22	PARDHI JANHAVI PRABHAKAR	10
23	PARISE PRATHAMESH JITENDRA	14
24	PIMPALKAR DNYANESH JAYANT	AA
25	POUNIKAR PRANAYA SURESH	AA
26	RATHOD VISHAL RAMLAL	11
27	ROKADE ARPOIT GANESH	AA
28	SHIVANKAR DHANSHRI ANANDRAO	14
29	SUTSONKAR KALYANI SANTOSH	10
30	THAKUR SIYA AMARSINGH	11
31	UPASE KETKI SHIVDAS	10
32	WARKHADE PRANAY SOPAN	7
33	ZOMBADEBHUSHAN KISAN	AA

  
**Prof . S. M. Ghatole**  
**Professor & Head**  
**Department of Electronics,**  
**Shri Shivaji Science Collage,**  
**Congress Nagar, Nagpur,**

**Bachelor of Science (B.Sc.) Semester-II Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-II)**  
**Unit Test - I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:20-02-2021**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat sketches wherever necessary.

**Attempt any four. (20 Marks)**

- 1) Explain the working of 4-bit Parallel counter with the help of timing diagram.
- 2) What are drawbacks of RC coupled and DC coupled amplifier?
- 2) Draw block diagram of Op-amp and explain each block briefly.
- 3) Explain need of dual power supply for differential with diagram.
- 4) What are advantages of differential amplifier?

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-II) Subject: Electronics (Paper- II)

Session: 2020 - 2021

**Unit Test - II**

Name of the Teacher: Dr. M. J. Hedau

Date: 20/03/2021


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	ALONE YASH ANIL	9
2	BANGDE ANSH PURISHOTTAM	7
3	BASOPURKAR SARAS PRAKASH	10
4	BOMLE TANMAY VIJAY	11
5	BOTHLIKAR MUNISH SADASHIV	13
6	BODKHE PRATIKSHA DILIP	10
7	CHATAP DIPTI NILKANTH	10
8	DATAR MITALI SUNIL	10
9	DESHMUKH SOHAM PRASHANT	14
10	DESHPANDE MUKTA RAVINDRA	12
11	DINESHWAR PUNAM BHOLARAM	10
12	DURGE RUPALI RAJU	15
13	GADDGE ANIKET PARSHURAM	11
14	GEETAY PRATHA RAJESH	13
15	KALE NISHANT UMRAO	11
16	KIRNAKE NALINI DEEPAK	13
17	MADAVI PIYUSH PUNDLIK	15
18	MANDVE SAMEER CHANDU	10
19	MAHAKULKAR RAHUL VINODRAO	11
20	MISHRA PRASHANT RAMTIRTAN	10
21	NAKADE PRATIKSHA AJARAOJI	AA
22	NAYAK RUPALI RAVINDRA	AA
23	POHARE SHUBHAM SHASHIKANT	AA
24	PRADDHAN MAHESH AMRUTANJAN	AA
25	RAUT SHRADDHA VISHWAS	10
26	SATHWANE SHUBHAM RAJENDRA	10
27	SHEIKH SIMRAN FATEMA	12
28	TINGURIA ADDARSH ATUL	9
29	UIKEY MUSKAN MANISH	5
30	VUAS JIGAR VIRBHADRANATH	AA
31	WANKHEDE DIKSHA SANJAY	10

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BANSOD ROHAN RAMBHAU	14
2	BACHALE HIMANSHU JAGESHWAR	10
3	BHENDE SAMIDHA ABHAY	12
4	CHAUDHARI SHARVARI SANJAY	12

5	DURGE RISHIKA JAGDISH	10
6	FASATE ABHISHEK NARENDRA	AA
7	GHAGARE HARSHAL YUVRAJ	16
8	GHUGAL KALYANI PANDHARI	14
9	GURAO TEJAS VINOD	12
10	KOLHE SAAKSHI KANCHAN	AA
11	KORDE TANISHQ ARVIND	10
12	KULMETHE JAYASHRI VISHNU	13
13	LANJEWAR JYOTI RAMESH	AA
14	LOKHANDE AVANTIKA GURUDDAS	AA
15	MASKE TANMAY PRADIPRAO	10
16	MENDHE ANIKET JAGDISH	14
17	MESHARAM ANCHAL JIYALAL	12
18	MISHRA NIKITA GAYAPRASADD	12
19	NANDANWAR YOGESH WAMAN	10
20	NEWARE ATHARVA RAMESHRAO	9
21	PADMAWAR SAMRUDHI SANJAY	12
22	PARDHI JANHAVI PRABHAKAR	AA
23	PARISE PRATHAMESH JITENDRA	6
24	PIMPALKAR DNYANESH JAYANT	12
25	POUNIKAR PRANAYA SURESH	14
26	RATHOD VISHAL RAMLAL	11
27	ROKADE ARPOIT GANESH	10
28	SHIVANKAR DHANSHRI ANANDRAO	AA
29	SUTSONKAR KALYANI SANTOSH	16
30	THAKUR SIYA AMARSINGH	8
31	UPASE KETKI SHIVDAS	12
32	WARKHADE PRANAY SOPAN	AA
33	ZOMBADEBHUSHAN KISAN	AA

  
 Prof . S. M. Ghatole  
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**Bachelor of Science (B.Sc.) Semester-II Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-II)**  
**Unit Test - II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:20-03-2021**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat sketches wherever necessary.

**Attempt all. (20 Marks)**

- 1) Explain OPAMP as Schmitt trigger and Define hysteresis voltage
- 2) Draw block diagram of IC555 and explain function of each block.
- 3) Explain different types of voltage comparator using OP-Amp. with diagram
- 4) Explain construction and working of Johnson counter.

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-III) Subject: Electronics (Paper- I)

Session: 2020 - 2021

**Unit Test - I**

Name of the Teacher: Dr. S. M. Ghatole

Date: 10/10/2020


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AMBADE PRERNA AMIT	14
2	BAGHEL VIVEK SURENDRABABU	14
3	BOPCHE BHARTI ASHOK	12
4	CHAVAN SHANTANU PREMDAS	10
5	GUPTA LOKESH DHARMENDRA	16
6	KAMBLE VIPLAV VIRENDRA	14
7	KHAPEKAR ANUJ MANGESH	15
8	KIRTIWAR PRIYANKA RAJESH	12
9	MANDHARE SURAJ RAJESH	AA
10	MASRAM SANKET SHATRUGHANRAO	AA
11	MENDHULKAR MANSHREE PURUSHOTTAM	12
12	MESHRAM ISHA KAWDUJI	12
13	MORE GANESH ANANDRAO	14
14	NIMKAR JANHAVVI CHANRRASHEKHAR	12
15	PANJWANI KHUSHI MULCHAND	14
16	RAUT PRACHI RAMAJI	12
17	SAHU SAPNA HARISHANKAR	AA
18	SELOKAR SHIVAM TAMESHWAR	AA
19	SONTAKKE SAKSHI ANIL	12
20	VERMA JAYA SUKHCEN	15
21	WAHANE SAKSHIT JANARDHAN	AA
22	WANKHEDE AYUSH SANJAY	15

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	ABHAYANKAR TANVI PRAFULLA	15
2	AGRAWAL PRAJWAL GOPAL	14
3	ATEY ASHUTOSH RANJIT	12
4	BANSULE ADITYA MANOHAR	12
5	BIDKAR SAKSHI HEMANT	10
6	CHANDURKAR SIDDHARTH MANOJ	12
7	DUDHE MAYURI SUDHIR	14
8	GEDAM PRAJAKTA GAJANAN	AA
9	GOUR PRACHI RAJU	AA
10	HADKE SEJAL SUDHIR	AA
11	INGLE MINAL DHARAMDIP	12
12	JAKKANWAR SEJAL KRISHNAKANT	11
13	KAMDE ANJALI RAJU	12
14	KASAR HEMANSHU GOLISH	15

15	KOVE SHRUTI DINESH	12
16	MESHARAM HEMANT SUNIL	AA
17	MOGRE SAMIKSHA SHANKAR	14
18	NANDANKAR SIMRAN GANESH	10
19	NAYAK NISHA JAGESHWARLAL	12
20	NIMJE APEKSHA DHARMENDRA	10
21	NAIK VANSHIKA SIDDHARTH	15
22	NAVGHARE SAMPADA RAJENDRA	11
23	PITRODA CHHABIL NAROTTAM	13
24	PRADHAN RASHMITA RATNAKAR	11
25	RAHELE PANKAJ ARVIND	12
26	RAJPUT VIKAS ANANDKISHOR	14
27	RAUT AISHWARYA KRISHNA	14
28	SELOKAR GIRISH GOPICHAND	AA
29	SINGH NIDHI RAKESH	14
30	UGEMUGE DIPALI ARVINDRAO	13
31	TIWARI URJA RAVIPRAKASH	12

  
Prof. S. M. Ghatole  
Professor & Head  
Department of Electronics,  
Shri Shivaji Scienca Collage,  
Congress Nagar, Nagpur.

**Bachelor of Science (B.Sc.) Semester-III Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-I)**  
**Unit Test-I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:10-10-2020**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat sketches wherever necessary.

**Attempt any four. (20 Marks)**

- |   |     |
|---|-----|
| 1) Explain parameters of ADC: i) Resolution ii)Speed iii) Range   | 3   |
| 3) Explain the working of dual slope ADC .What is advantages<br>1) Of dual slope ADC?   | 3+2 |
| Explain need of ADC and DAC.  | 4   |
| 2) What are limitations of weighted 4bit DAC? Explain R-2R<br>Ladder 4 bit DAC.   | 2+3 |
| 4) Logical level for 5 bit R-2R ladders are 1=5V and 0 = 0V .<br>Find the output voltage for output i) 10101 ii) 11001<br>^^^ | 3   |

*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-III) Subject: Electronics (Paper- I)

Session: 2020 - 2021

**Unit Test - II**

Name of the Teacher: Dr. S. M. Ghatole

Date: 23/01/2021

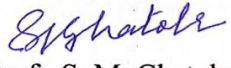
Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AMBADE PRERNA AMIT	13
2	BAGHEL VIVEK SURENDRABABU	12
3	BOPCHE BHARTI ASHOK	13
4	CHAVAN SHANTANU PREMDAS	10
5	GUPTA LOKESH DHARMENDRA	15
6	KAMBLE VIPLAV VIRENDRA	AA
7	KHAPEKAR ANUJ MANGESH	15
8	KIRTIWAR PRIYANKA RAJESH	10
9	MANDHARE SURAJ RAJESH	AA
10	MASRAM SANKET SHATRUGHANRAO	11
11	MENDHULKAR MANSHREE PURUSHOTTAM	12
12	MESHRAM ISHA KAWDUJI	12
13	MORE GANESH ANANDRAO	AA
14	NIMKAR JANHAVVI CHANRRASHEKHAR	13
15	PANJWANI KHUSHI MULCHAND	AA
16	RAUT PRACHI RAMAJI	12
17	SAHU SAPNA HARISHANKAR	AA
18	SELOKAR SHIVAM TAMESHWAR	14
19	SONTAKKE SAKSHI ANIL	15
20	VERMA JAYA SUKHCEN	15
21	WAHANE SAKSHIT JANARDHAN	16
22	WANKHEDE AYUSH SANJAY	12

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	ABHAYANKAR TANVI PRAFULLA	15
2	AGRAWAL PRAJWAL GOPAL	10
3	ATEY ASHUTOSH RANJIT	14
4	BANSULE ADITYA MANOHAR	15
5	BIDKAR SAKSHI HEMANT	AA
6	CHANDURKAR SIDDHARTH MANOJ	10
7	DUDHE MAYURI SUDHIR	11
8	GEDAM PRAJAKTA GAJANAN	AA
9	GOUR PRACHI RAJU	AA
10	HADKE SEJAL SUDHIR	AA
11	INGLE MINAL DHARAMDIP	15
12	JAKKANWAR SEJAL KRISHNAKANT	16
13	KAMDE ANJALI RAJU	10
14	KASAR HEMANSHU GOLISH	12

15	KOVE SHRUTI DINESH	10
16	MESHARAM HEMANT SUNIL	14
17	MOGRE SAMIKSHA SHANKAR	12
18	NANDANKAR SIMRAN GANESH	AA
19	NAYAK NISHA JAGESHWARLAL	AA
20	NIMJE APEKSHA DHARMENDRA	10
21	NAIK VANSHIKA SIDDHARTH	12
22	NAVGHARE SAMPADA RAJENDRA	11
23	PITRODA CHHABIL NAROTTAM	10
24	PRADHAN RASHMITA RATNAKAR	12
25	RAHELE PANKAJ ARVIND	14
26	RAJPUT VIKAS ANANDKISHOR	AA
27	RAUT AISHWARYA KRISHNA	AA
28	SELOKAR GIRISH GOPICHAND	10
29	SINGH NIDHI RAKESH	14
30	UGEMUGE DIPALI ARVINDRAO	13
31	TIWARI URJA RAVIPRAKASH	13

  
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Congress Nagar, Nagpur.

**Bachelor of Science (B.Sc.) Semester-III Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-II)**  
**Unit Test -II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:23-01-2021**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat sketches wherever necessary.

- |  |     |
|--|-----|
| 1) Explain need of ADC and DAC.  | 4   |
| 2) Explain parameters of ADC: i) Resolution<br>ii)Speed      iii) Range  | 3   |
| 3) Explain the working of dual slope ADC .What is advantages<br>Of dual slope ADC?   | 3+2 |
| 4) Logical level for 5 bit R-2R ladder are $1=5V$ and $0 = 0V$ .<br>Find the output voltage for output i) 10101    ii) 11001 | 3   |
| 5) What are limitations of weighted 4bit DAC? Explain R-2R<br>Ladder 4 bit DAC.  | 2+3 |

\*\*\*

*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-IV) Subject: Electronics (Paper- I)

Session: 2020 - 2021

**Unit Test - I**

Name of the Teacher: Dr. M. J. Hedau

Date: 20/03/2021


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AMBADE PRERNA AMIT	17
2	BAGHEL VIVEK SURENDRABABU	12
3	BOPCHE BHARTI ASHOK	14
4	CHAVAN SHANTANU PREMDAS	16
5	GUPTA LOKESH DHARMENDRA	12
6	KAMBLE VIPLAV VIRENDRA	16
7	KHAPEKAR ANUJ MANGESH	13
8	KIRTIWAR PRIYANKA RAJESH	10
9	MANDHARE SURAJ RAJESH	12
10	MASRAM SANKET SHATRUGHANRAO	11
11	MENDHULKAR MANSHREE PURUSHOTTAM	AA
12	MESHARAM ISHA KAWDUJI	12
13	MORE GANESH ANANDRAO	AA
14	NIMKAR JANHAVVI CHANRRASHEKHAR	10
15	PANJWANI KHUSHI MULCHAND	13
16	RAUT PRACHI RAMAJI	AA
17	SAHU SAPNA HARISHANKAR	10
18	SELOKAR SHIVAM TAMESHWAR	11
19	SONTAKKE SAKSHI ANIL	12
20	VERMA JAYA SUKHCEN	13
21	WAHANE SAKSHIT JANARDHAN	10
22	WANKHEDE AYUSH SANJAY	AA

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	ABHAYANKAR TANVI PRAFULLA	14
2	AGRAWAL PRAJWAL GOPAL	12
3	ATEY ASHUTOSH RANJIT	15
4	BANSULE ADITYA MANOHAR	12
5	BIDKAR SAKSHI HEMANT	14
6	CHANDURKAR SIDDHARTH MANOJ	17
7	DUDHE MAYURI SUDHIR	10
8	GEDAM PRAJAKTA GAJANAN	10
9	GOUR PRACHI RAJU	AA
10	HADKE SEJAL SUDHIR	AA
11	INGLE MINAL DHARAMDIP	12
12	JAKKANWAR SEJAL KRISHNAKANT	11
13	KAMDE ANJALI RAJU	10
14	KASAR HEMANSHU GOLISH	13

15	KOVE SHRUTI DINESH	10
16	MESHARAM HEMANT SUNIL	AA
17	MOGRE SAMIKSHA SHANKAR	AA
18	NANDANKAR SIMRAN GANESH	10
19	NAYAK NISHA JAGESHWARLAL	AA
20	NIMJE APEKSHA DHARMENDRA	10
21	NAIK VANSHIKA SIDDHARTH	12
22	NAVGHARE SAMPADA RAJENDRA	AA
23	PITRODA CHHABIL NAROTTAM	14
24	PRADHAN RASHMITA RATNAKAR	15
25	RAHELE PANKAJ ARVIND	10
26	RAJPUT VIKAS ANANDKISHOR	7
27	RAUT AISHWARYA KRISHNA	12
28	SELOKAR GIRISH GOPICHAND	AA
29	SINGH NIDHI RAKESH	16
30	UGEMUGE DIPALI ARVINDRAO	11
31	TIWARI URJA RAVIPRAKASH	12

  
Prof. S. M. Ghatole  
Professor & Head  
Department of Electronics,  
Shri Shivaji Sciencia Collage,  
Congress Nagar, Nagpur.



**Bachelor of Science (B.Sc.) Semester-IV Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-I)**  
**Unit Test -I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:20-03-2021**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat sketches wherever necessary.

**Attempt any four. (20)**

- 1) What is multiplexing? Explain its classification. Describe the process of FDM and TDM and state any three differences between them.
- 2) State different types of Noise and explain it.
- 3) Explain (a) sources of noise (b) Signal to noise ratio (c) Noise figure.
- 4) Explain Amplitude modulation in brief along with waveform. Draw and explain frequency spectrum at AM wave.
- 5) Derive an expression for power calculation in AM wave. Give the comparison between AM and FM.

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-IV) Subject: Electronics (Paper- I)

Session: 2020 - 2021

**Unit Test - II**

Name of the Teacher: Dr. M. J. Hedau

Date: 24/04/2021


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AMBADE PRERNA AMIT	18
2	BAGHEL VIVEK SURENDRABABU	14
3	BOPCHE BHARTI ASHOK	15
4	CHAVAN SHANTANU PREMDAS	17
5	GUPTA LOKESH DHARMENDRA	12
6	KAMBLE VIPLAV VIRENDRA	11
7	KHAPEKAR ANUJ MANGESH	13
8	KIRTIWAR PRIYANKA RAJESH	14
9	MANDHARE SURAJ RAJESH	AA
10	MASRAM SANKET SHATRUGHANRAO	AA
11	MENDHULKAR MANSHREE PURUSHOTTAM	12
12	MESHRAM ISHA KAWDUJI	12
13	MORE GANESH ANANDRAO	AA
14	NIMKAR JANHAVVI CHANRRASHEKHAR	14
15	PANJWANI KHUSHI MULCHAND	AA
16	RAUT PRACHI RAMAJI	12
17	SAHU SAPNA HARISHANKAR	AA
18	SELOKAR SHIVAM TAMESHWAR	14
19	SONTAKKE SAKSHI ANIL	12
20	VERMA JAYA SUKHCEN	17
21	WAHANE SAKSHIT JANARDHAN	13
22	WANKHEDE AYUSH SANJAY	14

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	ABHAYANKAR TANVI PRAFULLA	16
2	AGRAWAL PRAJWAL GOPAL	15
3	ATEY ASHUTOSH RANJIT	12
4	BANSULE ADITYA MANOHAR	13
5	BIDKAR SAKSHI HEMANT	AA
6	CHANDURKAR SIDDHARTH MANOJ	14
7	DUDHE MAYURI SUDHIR	AA
8	GEDAM PRAJAKTA GAJANAN	15
9	GOUR PRACHI RAJU	8
10	HADKE SEJAL SUDHIR	17
11	INGLE MINAL DHARAMDIP	14
12	JAKKANWAR SEJAL KRISHNAKANT	11
13	KAMDE ANJALI RAJU	13
14	KASAR HEMANSHU GOLISH	10

15	KOVE SHRUTI DINESH	10
16	MESHARAM HEMANT SUNIL	AA
17	MOGRE SAMIKSHA SHANKAR	14
18	NANDANKAR SIMRAN GANESH	16
19	NAYAK NISHA JAGESHWARLAL	12
20	NIMJE APEKSHA DHARMENDRA	10
21	NAIK VANSHIKA SIDDHARTH	12
22	NAVGHARE SAMPADA RAJENDRA	11
23	PITRODA CHHABIL NAROTTAM	14
24	PRADHAN RASHMITA RATNAKAR	11
25	RAHELE PANKAJ ARVIND	12
26	RAJPUT VIKAS ANANDKISHOR	AA
27	RAUT AISHWARYA KRISHNA	10
28	SELOKAR GIRISH GOPICHAND	AA
29	SINGH NIDHI RAKESH	14
30	UGEMUGE DIPALI ARVINDRAO	11
31	TIWARI URJA RAVIPRAKASH	14

  
Prof. S. M. Ghatole  
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Congress Nagar, Nagpur.

**Bachelor of Science (B.Sc.) Semester-IV Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-I)**  
**Unit Test -II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:24-04-2021**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat sketches wherever necessary.

**Attempt any four. (20)**

- 1) Differentiate between AM and FM receiver.
- 2) What are transmission lines? What are the different types of transmission lines?
- 3) What are standing waves? How are they produced? What does a high SWR indicate in terms of impedance match?
- 4) Explain Am transmitters with the block diagram.
- 5) Explain super-heterodyne receiver with the block diagram.

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-IV) Subject: Electronics (Paper- II)

Session: 2020 - 2021

**Unit Test - I**

Name of the Teacher: Dr. S. M. Ghatole

Date: 27/03/2021

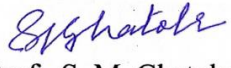
Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AMBADE PRERNA AMIT	19
2	BAGHEL VIVEK SURENDRABABU	14
3	BOPCHE BHARTI ASHOK	14
4	CHAVAN SHANTANU PREMDAS	12
5	GUPTA LOKESH DHARMENDRA	15
6	KAMBLE VIPLAV VIRENDRA	13
7	KHAPEKAR ANUJ MANGESH	13
8	KIRTIWAR PRIYANKA RAJESH	12
9	MANDHARE SURAJ RAJESH	AA
10	MASRAM SANKET SHATRUGHANRAO	11
11	MENDHULKAR MANSHREE PURUSHOTTAM	12
12	MESHRAM ISHA KAWDUJI	12
13	MORE GANESH ANANDRAO	12
14	NIMKAR JANHAVVI CHANRRASHEKHAR	10
15	PANJWANI KHUSHI MULCHAND	AA
16	RAUT PRACHI RAMAJI	AA
17	SAHU SAPNA HARISHANKAR	AA
18	SELOKAR SHIVAM TAMESHWAR	11
19	SONTAKKE SAKSHI ANIL	15
20	VERMA JAYA SUKHCEN	15
21	WAHANE SAKSHIT JANARDHAN	14
22	WANKHEDE AYUSH SANJAY	16

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	ABHAYANKAR TANVI PRAFULLA	15
2	AGRAWAL PRAJWAL GOPAL	10
3	ATEY ASHUTOSH RANJIT	15
4	BANSULE ADITYA MANOHAR	17
5	BIDKAR SAKSHI HEMANT	AA
6	CHANDURKAR SIDDHARTH MANOJ	10
7	DUDHE MAYURI SUDHIR	AA
8	GEDAM PRAJAKTA GAJANAN	10
9	GOUR PRACHI RAJU	AA
10	HADKE SEJAL SUDHIR	17
11	INGLE MINAL DHARAMDIP	14
12	JAKKANWAR SEJAL KRISHNAKANT	11
13	KAMDE ANJALI RAJU	AA
14	KASAR HEMANSHU GOLISH	9

15	KOVE SHRUTI DINESH	10
16	MESHARAM HEMANT SUNIL	12
17	MOGRE SAMIKSHA SHANKAR	12
18	NANDANKAR SIMRAN GANESH	10
19	NAYAK NISHA JAGESHWARLAL	AA
20	NIMJE APEKSHA DHARMENDRA	AA
21	NAIK VANSHIKA SIDDHARTH	12
22	NAVGHARE SAMPADA RAJENDRA	11
23	PITRODA CHHABIL NAROTTAM	AA
24	PRADHAN RASHMITA RATNAKAR	11
25	RAHELE PANKAJ ARVIND	16
26	RAJPUT VIKAS ANANDKISHOR	12
27	RAUT AISHWARYA KRISHNA	13
28	SELOKAR GIRISH GOPICHAND	AA
29	SINGH NIDHI RAKESH	14
30	UGEMUGE DIPALI ARVINDRAO	11
31	TIWARI URJA RAVIPRAKASH	14

  
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**Bachelor of Science (B.Sc.) Semester-IV Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-II)**  
**Unit Test -I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:27-03-2021**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat sketches wherever necessary.

**Attempt the following: (20 Marks)**

1. (A) Explain the classification of transducer with suitable examples. Enlist the photo transducers and explain its principle of operation. (6+4)

**OR**

(B) Enlist the characteristics of transducer and explain it. (10)

2. (A) What is digital Instrumentation system? Draw and explain the block diagram of it. State the Characteristics of it. (2+6+2)

**OR**

(B) Define dedicated, versatile and stand-alone instrumentation systems. What is calibration? List the different calibration standards. (6+4)

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-IV) Subject: Electronics (Paper-II)

Session: 2020 - 2021

**Unit Test - II**

Name of the Teacher: Dr. S. M. Ghatole

Date: 24/04/2021

Batch: M3 (PEM)


<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AMBADE PRERNA AMIT	12
2	BAGHEL VIVEK SURENDRABABU	13
3	BOPCHE BHARTI ASHOK	AA
4	CHAVAN SHANTANU PREMDAS	10
5	GUPTA LOKESH DHARMENDRA	12
6	KAMBLE VIPLAV VIRENDRA	11
7	KHAPEKAR ANUJ MANGESH	14
8	KIRTIWAR PRIYANKA RAJESH	AA
9	MANDHARE SURAJ RAJESH	13
10	MASRAM SANKET SHATRUGHANRAO	11
11	MENDHULKAR MANSHREE PURUSHOTTAM	14
12	MESHRAM ISHA KAWDUJI	12
13	MORE GANESH ANANDRAO	12
14	NIMKAR JANHAVVI CHANRRASHEKHAR	10
15	PANJWANI KHUSHI MULCHAND	11
16	RAUT PRACHI RAMAJI	AA
17	SAHU SAPNA HARISHANKAR	12
18	SELOKAR SHIVAM TAMESHWAR	11
19	SONTAKKE SAKSHI ANIL	AA
20	VERMA JAYA SUKHCEN	15
21	WAHANE SAKSHIT JANARDHAN	13
22	WANKHEDE AYUSH SANJAY	AA

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	ABHAYANKAR TANVI PRAFULLA	14
2	AGRAWAL PRAJWAL GOPAL	16
3	ATEY ASHUTOSH RANJIT	12
4	BANSULE ADITYA MANOHAR	11
5	BIDKAR SAKSHI HEMANT	AA
6	CHANDURKAR SIDDHARTH MANOJ	12
7	DUDHE MAYURI SUDHIR	AA
8	GEDAM PRAJAKTA GAJANAN	10
9	GOUR PRACHI RAJU	AA
10	HADKE SEJAL SUDHIR	AA
11	INGLE MINAL DHARAMDIP	12
12	JAKKANWAR SEJAL KRISHNAKANT	11
13	KAMDE ANJALI RAJU	AA
14	KASAR HEMANSHU GOLISH	12



15	KOVE SHRUTI DINESH	10
16	MESHARAM HEMANT SUNIL	AA
17	MOGRE SAMIKSHA SHANKAR	12
18	NANDANKAR SIMRAN GANESH	10
19	NAYAK NISHA JAGESHWARLAL	13
20	NIMJE APEKSHA DHARMENDRA	10
21	NAIK VANSHIKA SIDDHARTH	12
22	NAVGHARE SAMPADA RAJENDRA	11
23	PITRODA CHHABIL NAROTTAM	10
24	PRADHAN RASHMITA RATNAKAR	11
25	RAHELE PANKAJ ARVIND	AA
26	RAJPUT VIKAS ANANDKISHOR	12
27	RAUT AISHWARYA KRISHNA	AA
28	SELOKAR GIRISH GOPICHAND	AA
29	SINGH NIDHI RAKESH	14
30	UGEMUGE DIPALI ARVINDRAO	11
31	TIWARI URJA RAVIPRAKASH	14

  
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**Bachelor of Science (B.Sc.) Semester-IV Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-II)**  
**Unit Test -II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:24-04-2021**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat sketches wherever necessary.

**Attempt the following (20 Marks)**

1. (A) Describe PC based instrumentation system. Draw the block diagram of Virtual instrumentation system and explain it. 5+5

**OR**

(B) Draw the block diagram of Electronic system and explain it. What is analog and digital electronic system ? Describe the characteristics of measuring instrument. 6+2+2

2. (A) Explain the measurement of temperature using IC LM 35. Explain (i) Active and Passive

(ii) Primary and secondary transducers with suitable examples. 6+4

**OR**

(B) Describe the principle of operation and working of thermistor for the measurement of temperature. Explain the concept of sensor and actuator. 6+4

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-V) Subject: Electronics (Paper- I)

Session: 2020 - 2021

**Unit Test - I**

Name of the Teacher: Dr. S. M. Ghatole

Date: 10/10/2020


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AGLAW PALALVI SURESH	18
2	BHONGADE KRUTIK SHESHRAO	15
3	BONDRE SUNAYAN DINESH	12
4	CHANDEKAR BHAVANA ARVIND	14
5	CHAUDHRI SAURABH SUNIL	12
6	CHOUHAN SHRUTI MAHENDRASINGH	14
7	DAHIKAR PAYAL SHESHRAO	16
8	DIGAMBARE KANCHAN ARUNRAO	10
9	FATING SARANGG YOGIRAJ	AA
10	FULKAR ANJALI ARUN	11
11	GAUTAM DEENA RAVINDRA	AA
12	GUPTA LABHESH ASHOK	12
13	GHATATE ANUJ CHANDRASHEKHAR	12
14	HAJARE PRATIK UMESH	15
15	KHOT UTKARSHA LAXMAN	12
16	LANDE ASHWINI SATISH	AA
17	LOKHANDE SONALI BHARAG	14
18	MALPEDDIWAR TEJAS RAMDAS	11
19	MENDWADE VAIBHAV NANDKISHOR	14
20	NARBARIYA MAYANK VIJAY	15
21	PADWE PATHMESH MADHUKAR	12
22	PAL MOHIT SURESH	12
23	PARATE ISHA KRUSHNA	14
24	PATLE PRAKASH HEMRAJ	12
25	POTFODE SUHAS SHRIRAM	16
26	RAJGIRE LALIT RAMCHANDRA	AA
27	SAWARKAR ANKITA JAGDISH	AA
29	VERMA OMESHWAR DNYANEHSWAR	14

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BAGHEL ARATI YASHLAL	14
2	BHAMBARKAR YASHRAJ YUVRAJ	15
3	BHATNAGAR KARTIK VINEET	12
4	BILLORE PRANAY BABLU	17
5	GHODMARE ANJALI KRISHNAJI	13
6	JAMGADE SWATI VILAS	AA
7	JATADHAR MAYURI RAM	AA
8	KANERKAR TANAY SUDHIR	15

9	KHAPRE JAISHREE VASUDEO	18
10	LAKUDKAR AKSHAY DILIP	17
11	LONARKAR VAISHNAVI ASHOK	14
12	MANDEKAR SHUBHANGI VIVEK	12
13	MANMODE POOJA DEEPAK	AA
14	MASRAM VIJAY RAMU	13
15	NIMJE SHUBHAM MURLIDHAR	10
16	NIRWAN GAURAV SANJAY	12
17	PALANDURKAR PRATIK SHEKHAR	12
18	PARWE PADMAKSHI NARESH	14
19	PIRODA VIDHI NAROTTAM	11
20	SANODIYA MANU DILIP	15
21	SAWARKAR AISHWARYA ISHWAR	16
22	SELOKAR SHUBHANGI GOPICHAND	18
23	SHEIKH SHABNAM ABDUL	12
24	SHRAWANKAR RUTIK MUKUNDA	AA
25	SULE SHALAKA AVINASH	10
26	TAPRE ROSHANI RAVINDRA	17
27	THAKRE JATIN DEVANAND	10
28	VAIDYA PRAJAKTA KRUSHNA	AA
29	WAGHMARE RAGINI RAJESH	AA
30	ZILPE HARSHAL RAVINDRA	13

  
**Prof. S. M. Ghatole**  
**Professor & Head**  
**Department of Electronics,**  
**Shri Shivaji Science College,**  
**Congress Nagar, Nagpur.**

**Bachelor of Science (B.Sc.) Semester-V Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-I)**  
**Unit Test -I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:10-10-2020**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat sketches wherever necessary.

**Attempt any four (20 Marks)**

- 1) Draw and explain the block diagram of fibre optic communication system.
- 2) Define acceptance cone/ angle, critical angle and numerical aperture.
- 3) Differentiate between LED and LASER diode source.
- 4) What is the working principle and characteristics of LASER and LED.
- 5) Explain Attenuation, absorption, scattering loss, bending loss and dispersion loss.

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-V) Subject: Electronics (Paper- I)

Session: 2020 - 2021

**Unit Test - II**

Name of the Teacher: Dr. S. M. Ghatole

Date: 22/01/2021


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AGLAWE PALALVI SURESH	16
2	BHONGADE KRUTIK SHESHRAO	12
3	BONDRE SUNAYAN DINESH	13
4	CHANDEKAR BHAVANA ARVIND	15
5	CHAUDHRI SAURABH SUNIL	16
6	CHOUHAN SHRUTI MAHENDRASINGH	14
7	DAHIKAR PAYAL SHESHRAO	16
8	DIGAMBARE KANCHAN ARUNRAO	14
9	FATING SARANGG YOGIRAJ	15
10	FULKAR ANJALI ARUN	16
11	GAUTAM DEENA RAVINDRA	16
12	GUPTA LABHESH ASHOK	17
13	GHATATE ANUJ CHANDRASHEKHAR	12
14	HAJARE PRATIK UMESH	14
15	KHOT UTKARSHA LAXMAN	12
16	LANDE ASHWINI SATISH	AA
17	LOKHANDE SONALI BHARAG	14
18	MALPEDDIWAR TEJAS RAMDAS	11
19	MENDWADE VAIBHAV NANDKISHOR	14
20	NARBARIYA MAYANK VIJAY	12
21	PADWE PATHMESH MADHUKAR	11
22	PAL MOHIT SURESH	AA
23	PARATE ISHA KRUSHNA	13
24	PATLE PRAKASH HEMRAJ	15
25	POTFODE SUHAS SHRIRAM	12
26	RAJGIRE LALIT RAMCHANDRA	10
27	SAWARKAR ANKITA JAGDISH	AA
29	VERMA OMESHWAR DNYANEHSWAR	15

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BAGHEL ARATI YASHLAL	14
2	BHAMBARKAR YASHRAJ YUVRAJ	15
3	BHATNAGAR KARTIK VINEET	12
4	BILLORE PRANAY BABLU	14
5	GHODMARE ANJALI KRISHNAJI	AA
6	JAMGADE SWATI VILAS	10
7	JATADHAR MAYURI RAM	AA
8	KANERKAR TANAY SUDHIR	14

9	KHAPRE JAISHREE VASUDEO	13
10	LAKUDKAR AKSHAY DILIP	14
11	LONARKAR VAISHNAVI ASHOK	15
12	MANDEKAR SHUBHANGI VIVEK	16
13	MANMODE POOJA DEEPAK	AA
14	MASRAM VIJAY RAMU	AA
15	NIMJE SHUBHAM MURLIDHAR	10
16	NIRWAN GAURAV SANJAY	AA
17	PALANDURKAR PRATIK SHEKHAR	AA
18	PARWE PADMAKSHI NARESH	16
19	PIRODA VIDHI NAROTTAM	12
20	SANODIYA MANU DILIP	17
21	SAWARKAR AISHWARYA ISHWAR	15
22	SELOKAR SHUBHANGI GOPICHAND	11
23	SHEIKH SHABNAM ABDUL	10
24	SHRAWANKAR RUTIK MUKUNDA	16
25	SULE SHALAKA AVINASH	12
26	TAPRE ROSHANI RAVINDRA	15
27	THAKRE JATIN DEVANAND	AA
28	VAIDYA PRAJAKTA KRUSHNA	13
29	WAGHMARE RAGINI RAJESH	14
30	ZILPE HARSHAL RAVINDRA	15

  
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**Bachelor of Science (B.Sc.) Semester-V Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-I)**  
**Unit Test -II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:22-01-2021**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat sketches wherever necessary.

**Attempt any four (20 Marks)**

- 1) State and Prove Sampling theorem in time domain.
- 2) Explain in detail, Delta modulation with suitable diagram. Write advantages and disadvantages of Delta modulation.
- 3) Draw and explain block diagram of PCM generator and PCM receiver.
- 4) Write advantages, disadvantages and drawbacks of PSK, ASK and FSK.
- 5) Explain synchronous and asynchronous transmission.

\*\*\*



*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-V) Subject: Electronics (Paper-II)

Session: 2020 - 2021

**Unit Test - I**

Name of the Teacher: Dr. M. J. Hedau

Date: 12/10/2020


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AGLAWE PALALVI SURESH	16
2	BHONGADE KRUTIK SHESHRAO	12
3	BONDRE SUNAYAN DINESH	13
4	CHANDEKAR BHAVANA ARVIND	15
5	CHAUDHRI SAURABH SUNIL	9
6	CHOUHAN SHRUTI MAHENDRASINGH	14
7	DAHIKAR PAYAL SHESHRAO	17
8	DIGAMBARE KANCHAN ARUNRAO	10
9	FATING SARANGG YOGIRAJ	12
10	FULKAR ANJALI ARUN	AA
11	GAUTAM DEENA RAVINDRA	12
12	GUPTA LABHESH ASHOK	12
13	GHATATE ANUJ CHANDRASHEKHAR	AA
14	HAJARE PRATIK UMESH	14
15	KHOT UTKARSHA LAXMAN	13
16	LANDE ASHWINI SATISH	AA
17	LOKHANDE SONALI BHARAG	AA
18	MALPEDDIWAR TEJAS RAMDAS	15
19	MENDWADE VAIBHAV NANDKISHOR	16
20	NARBARIYA MAYANK VIJAY	14
21	PADWE PATHMESH MADHUKAR	16
22	PAL MOHIT SURESH	17
23	PARATE ISHA KRUSHNA	19
24	PATLE PRAKASH HEMRAJ	12
25	POTFODE SUHAS SHRIRAM	13
26	RAJGIRE LALIT RAMCHANDRA	15
27	SAWARKAR ANKITA JAGDISH	12
29	VERMA OMESHWAR DNYANEHSWAR	10

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BAGHEL ARATI YASHLAL	16
2	BHAMBARKAR YASHRAJ YUVRAJ	15
3	BHATNAGAR KARTIK VINEET	15
4	BILLORE PRANAY BABLU	16
5	GHODMARE ANJALI KRISHNAJI	AA
6	JAMGADE SWATI VILAS	14
7	JATADHAR MAYURI RAM	AA
8	KANERKAR TANAY SUDHIR	15

9	KHAPRE JAISHREE VASUDEO	18
10	LAKUDKAR AKSHAY DILIP	17
11	LONARKAR VAISHNAVI ASHOK	14
12	MANDEKAR SHUBHANGI VIVEK	11
13	MANMODE POOJA DEEPAK	AA
14	MASRAM VIJAY RAMU	19
15	NIMJE SHUBHAM MURLIDHAR	14
16	NIRWAN GAURAV SANJAY	AA
17	PALANDURKAR PRATIK SHEKHAR	16
18	PARWE PADMAKSHI NARESH	10
19	PIRODA VIDHI NAROTTAM	18
20	SANODIYA MANU DILIP	10
21	SAWARKAR AISHWARYA ISHWAR	14
22	SELOKAR SHUBHANGI GOPICHAND	11
23	SHEIKH SHABNAM ABDUL	10
24	SHRAWANKAR RUTIK MUKUNDA	16
25	SULE SHALAKA AVINASH	12
26	TAPRE ROSHANI RAVINDRA	14
27	THAKRE JATIN DEVANAND	16
28	VAIDYA PRAJAKTA KRUSHNA	AA
29	WAGHMARE RAGINI RAJESH	17
30	ZILPE HARSHAL RAVINDRA	18

  
**Prof. S. M. Ghatole**  
**Professor & Head**  
**Department of Electronics,**  
**Shri Shivaji Science College,**  
**Congress Nagar, Nagpur.**

**Bachelor of Science (B.Sc.) Semester-V Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-II)**  
**Unit Test -I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:12-10-2020**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat sketches wherever necessary.

Attempt the following (20 Marks)

1. (A) Draw and explain functional block diagram of 8085. 10

**OR**

(B) Explain instruction cycle of 8085. Explain execution cycle of MOV A, B instruction. 6+4

2. (A) Explain the following instruction with one suitable example :

- (i) MOV A, M
- (ii) LXI D, 16 bit data
- (iii) CMA
- (iv) LHLD addr
- (v) RAR. 10

**OR**

(B) Assume that HL pair holds 2000 H. What will be the contents of HL pair after the execution of following instructions independently :

- (i) INX H (ii) DCX H
- (iii) INR H (iv) DCR L

Explain various addressing modes of 8085 with suitable example. 4+6

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-V) Subject: Electronics (Paper-II)

Session: 2020 - 2021

**Unit Test - II**

Name of the Teacher: Dr. M. J. Hedau

Date: 15/01/2021


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AGLAW PALALVI SURESH	12
2	BHONGADE KRUTIK SHESHRAO	14
3	BONDRE SUNAYAN DINESH	13
4	CHANDEKAR BHAVANA ARVIND	15
5	CHAUDHRI SAURABH SUNIL	16
6	CHOUHAN SHRUTI MAHENDRASINGH	13
7	DAHIKAR PAYAL SHESHRAO	13
8	DIGAMBARE KANCHAN ARUNRAO	15
9	FATING SARANGG YOGIRAJ	AA
10	FULKAR ANJALI ARUN	AA
11	GAUTAM DEENA RAVINDRA	AA
12	GUPTA LABHESH ASHOK	12
13	GHATATE ANUJ CHANDRASHEKHAR	AA
14	HAJARE PRATIK UMESH	10
15	KHOT UTKARSHA LAXMAN	13
16	LANDE ASHWINI SATISH	AA
17	LOKHANDE SONALI BHARAG	14
18	MALPEDDIWAR TEJAS RAMDAS	11
19	MENDWADE VAIBHAV NANDKISHOR	12
20	NARBARIYA MAYANK VIJAY	17
21	PADWE PATHMESH MADHUKAR	15
22	PAL MOHIT SURESH	16
23	PARATE ISHA KRUSHNA	15
24	PATLE PRAKASH HEMRAJ	12
25	POTFODE SUHAS SHRIRAM	15
26	RAJGIRE LALIT RAMCHANDRA	16
27	SAWARKAR ANKITA JAGDISH	12
29	VERMA OMESHWAR DNYANEHSWAR	16

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BAGHEL ARATI YASHLAL	16
2	BHAMBARKAR YASHRAJ YUVRAJ	14
3	BHATNAGAR KARTIK VINEET	17
4	BILLORE PRANAY BABLU	12
5	GHODMARE ANJALI KRISHNAJI	AA
6	JAMGADE SWATI VILAS	13
7	JATADHAR MAYURI RAM	AA
8	KANERKAR TANAY SUDHIR	10

9	KHAPRE JAISHREE VASUDEO	13
10	LAKUDKAR AKSHAY DILIP	15
11	LONARKAR VAISHNAVI ASHOK	14
12	MANDEKAR SHUBHANGI VIVEK	15
13	MANMODE POOJA DEEPAK	12
14	MASRAM VIJAY RAMU	13
15	NIMJE SHUBHAM MURLIDHAR	10
16	NIRWAN GAURAV SANJAY	14
17	PALANDURKAR PRATIK SHEKHAR	12
18	PARWE PADMAKSHI NARESH	13
19	PIRODA VIDHI NAROTTAM	14
20	SANODIYA MANU DILIP	16
21	SAWARKAR AISHWARYA ISHWAR	13
22	SELOKAR SHUBHANGI GOPICHAND	17
23	SHEIKH SHABNAM ABDUL	10
24	SHRAWANKAR RUTIK MUKUNDA	15
25	SULE SHALAKA AVINASH	12
26	TAPRE ROSHANI RAVINDRA	7
27	THAKRE JATIN DEVANAND	12
28	VAIDYA PRAJAKTA KRUSHNA	AA
29	WAGHMARE RAGINI RAJESH	14
30	ZILPE HARSHAL RAVINDRA	12

  
**Prof. S. M. Ghatole**  
**Professor & Head**  
**Department of Electronics,**  
**Shri Shivaji Science College,**  
**Congress Nagar, Nagpur.**

**Bachelor of Science (B.Sc.) Semester-V Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-II)**  
**Unit Test -II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:15-01-2021**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat sketches wherever necessary.

**Attempt (20 Marks)**

1. (A) List various conditional and unconditional jump instructions of 8085. Write an ALP to find out the smaller of two 8-bit numbers stored in memory location 2100 H and 2101 H. Store the result in 2102 H. (6+4)

**OR**

(B) Explain stack and subroutine operations of 8085. Explain the execution of PUSH and POP instruction with suitable example. (6+4)

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-VI) Subject: Electronics (Paper- I)

Session: 2020 - 2021

**Unit Test - I**

Name of the Teacher: Dr. S. M. Ghatole

Date: 01/03/2021


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AGLAWE PALALVI SURESH	11
2	BHONGADE KRUTIK SHESHRAO	12
3	BONDRE SUNAYAN DINESH	15
4	CHANDEKAR BHAVANA ARVIND	15
5	CHAUDHRI SAURABH SUNIL	14
6	CHOUHAN SHRUTI MAHENDRASINGH	16
7	DAHIKAR PAYAL SHESHRAO	13
8	DIGAMBARE KANCHAN ARUNRAO	13
9	FATING SARANGG YOGIRAJ	AA
10	FULKAR ANJALI ARUN	15
11	GAUTAM DEENA RAVINDRA	11
12	GUPTA LABHESH ASHOK	12
13	GHATATE ANUJ CHANDRASHEKHAR	13
14	HAJARE PRATIK UMESH	17
15	KHOT UTKARSHA LAXMAN	13
16	LANDE ASHWINI SATISH	AA
17	LOKHANDE SONALI BHARAG	14
18	MALPEDDIWAR TEJAS RAMDAS	12
19	MENDWADE VAIBHAV NANDKISHOR	12
20	NARBARIYA MAYANK VIJAY	17
21	PADWE PATHMESH MADHUKAR	10
22	PAL MOHIT SURESH	13
23	PARATE ISHA KRUSHNA	13
24	PATLE PRAKASH HEMRAJ	16
25	POTFODE SUHAS SHRIRAM	17
26	RAJGIRE LALIT RAMCHANDRA	AA
27	SAWARKAR ANKITA JAGDISH	12
29	VERMA OMESHWAR DNYANEHSWAR	10

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BAGHEL ARATI YASHLAL	15
2	BHAMBARKAR YASHRAJ YUVRAJ	14
3	BHATNAGAR KARTIK VINEET	16
4	BILLORE PRANAY BABLU	12
5	GHODMARE ANJALI KRISHNAJI	AA
6	JAMGADE SWATI VILAS	16
7	JATADHAR MAYURI RAM	13
8	KANERKAR TANAY SUDHIR	14

9	KHAPRE JAISHREE VASUDEO	8
10	LAKUDKAR AKSHAY DILIP	9
11	LONARKAR VAISHNAVI ASHOK	11
12	MANDEKAR SHUBHANGI VIVEK	14
13	MANMODE POOJA DEEPAK	16
14	MASRAM VIJAY RAMU	11
15	NIMJE SHUBHAM MURLIDHAR	10
16	NIRWAN GAURAV SANJAY	AA
17	PALANDURKAR PRATIK SHEKHAR	AA
18	PARWE PADMAKSHI NARESH	AA
19	PIRODA VIDHI NAROTTAM	8
20	SANODIYA MANU DILIP	10
21	SAWARKAR AISHWARYA ISHWAR	17
22	SELOKAR SHUBHANGI GOPICHAND	12
23	SHEIKH SHABNAM ABDUL	14
24	SHRAWANKAR RUTIK MUKUNDA	11
25	SULE SHALAKA AVINASH	12
26	TAPRE ROSHANI RAVINDRA	14
27	THAKRE JATIN DEVANAND	AA
28	VAIDYA PRAJAKTA KRUSHNA	13
29	WAGHMARE RAGINI RAJESH	17
30	ZILPE HARSHAL RAVINDRA	12

  
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**Congress Nagar, Nagpur.**



**Bachelor of Science (B.Sc.) Semester-VI Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-I Topic: Programming in 'C' Unit No. 1)**  
**Unit Test -I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:01-03-2021**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat and labelled diagram wherever necessary.

**Attempt the following 20 Marks)**

1. (A) Enlist various types of C operators. Differentiate between pre and post increment of a variable and explain with suitable example. State the difference between logical and bitwise operators with suitable examples in each case. [10]  
**OR**  
(B) Answer the following: [10]
  - (i) What is Keyword? State its importance enlist any five keywords in 'C'.
  - (ii) Write a program in 'C' to convert given temperature from Fahrenheit to Celsius.
2. Attempt any five. [10]
  - a) What is C token?
  - b) List the rules for naming variables giving example.
  - c) Explain how a variable can be declared with suitable example.
  - d) Explain conditional operator with its format.
  - e) State the merits of 'C' language.
  - f) Explain the purpose of following: printf( ), scanf( ).

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-VI) Subject: Electronics (Paper-I)

Session: 2020 - 2021

**Unit Test - II**

Name of the Teacher: Dr. S. M. Ghatole

Date: 24/04/2021


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AGLAW PALALVI SURESH	14
2	BHONGADE KRUTIK SHESHRAO	15
3	BONDRE SUNAYAN DINESH	16
4	CHANDEKAR BHAVANA ARVIND	16
5	CHAUDHRI SAURABH SUNIL	11
6	CHOUHAN SHRUTI MAHENDRASINGH	15
7	DAHIKAR PAYAL SHESHRAO	17
8	DIGAMBARE KANCHAN ARUNRAO	10
9	FATING SARANGG YOGIRAJ	15
10	FULKAR ANJALI ARUN	12
11	GAUTAM DEENA RAVINDRA	AA
12	GUPTA LABHESH ASHOK	12
13	GHATATE ANUJ CHANDRASHEKHAR	AA
14	HAJARE PRATIK UMESH	10
15	KHOT UTKARSHA LAXMAN	13
16	LANDE ASHWINI SATISH	15
17	LOKHANDE SONALI BHARAG	AA
18	MALPEDDIWAR TEJAS RAMDAS	15
19	MENDWADE VAIBHAV NANDKISHOR	16
20	NARBARIYA MAYANK VIJAY	13
21	PADWE PATHMESH MADHUKAR	14
22	PAL MOHIT SURESH	15
23	PARATE ISHA KRUSHNA	14
24	PATLE PRAKASH HEMRAJ	15
25	POTFODE SUHAS SHRIRAM	12
26	RAJGIRE LALIT RAMCHANDRA	11
27	SAWARKAR ANKITA JAGDISH	16
29	VERMA OMESHWAR DNYANEHSWAR	12

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BAGHEL ARATI YASHLAL	16
2	BHAMBARKAR YASHRAJ YUVRAJ	12
3	BHATNAGAR KARTIK VINEET	16
4	BILLORE PRANAY BABLU	11
5	GHODMARE ANJALI KRISHNAJI	13
6	JAMGADE SWATI VILAS	AA
7	JATADHAR MAYURI RAM	17
8	KANERKAR TANAY SUDHIR	AA

9	KHAPRE JAISHREE VASUDEO	AA
10	LAKUDKAR AKSHAY DILIP	AA
11	LONARKAR VAISHNAVI ASHOK	16
12	MANDEKAR SHUBHANGI VIVEK	16
13	MANMODE POOJA DEEPAK	12
14	MASRAM VIJAY RAMU	13
15	NIMJE SHUBHAM MURLIDHAR	13
16	NIRWAN GAURAV SANJAY	10
17	PALANDURKAR PRATIK SHEKHAR	12
18	PARWE PADMAKSHI NARESH	AA
19	PIRODA VIDHI NAROTTAM	AA
20	SANODIYA MANU DILIP	10
21	SAWARKAR AISHWARYA ISHWAR	13
22	SELOKAR SHUBHANGI GOPICHAND	14
23	SHEIKH SHABNAM ABDUL	9
24	SHRAWANKAR RUTIK MUKUNDA	12
25	SULE SHALAKA AVINASH	18
26	TAPRE ROSHANI RAVINDRA	12
27	THAKRE JATIN DEVANAND	14
28	VAIDYA PRAJAKTA KRUSHNA	15
29	WAGHMARE RAGINI RAJESH	AA
30	ZILPE HARSHAL RAVINDRA	AA

  
 Prof. S. M. Ghatole  
 Professor & Head  
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 Congress Nagar, Nagpur.

**Bachelor of Science (B.Sc.) Semester-VI Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-I Topic: Programming in 'C' Unit No. 2 & 3)**  
**Unit Test-II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:24-04-2021**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat and labelled diagram wherever necessary.

**Attempt the following (20Marks)**

1. (A) Answer the following: [5+5]
  - i) What are decision making and branching statements? Explain nested if ..... else statement with example.
  - ii) What is the use of continue statement in loops? Differentiate between while loop and do\_while loop.

**OR**

- (B) Answer the following: [5+5]
  - (i) Give the difference between while and do while loops. Explain the working of "switch" statement.
  - (ii) Write a program to find whether the given number is positive or negative.
  
2. Attempt any five. [10]
  - a) Give the general form of simple if statement.
  - b) Write generalized syntax of a function.
  - c) What is need of user defined functions?
  - d) What is the meaning of nesting of a loop?
  - e) Is it possible to initialize unions?
  - f) What is function of break statement?

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-VI) Subject: Electronics (Paper-II)

Session: 2020 - 2021

**Unit Test - I**

Name of the Teacher: Dr. M. J. Hedau

Date: 15/02/2021


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AGLAWE PALALVI SURESH	AA
2	BHONGADE KRUTIK SHESHRAO	12
3	BONDRE SUNAYAN DINESH	AA
4	CHANDEKAR BHAVANA ARVIND	13
5	CHAUDHRI SAURABH SUNIL	14
6	CHOUHAN SHRUTI MAHENDRASINGH	15
7	DAHIKAR PAYAL SHESHRAO	16
8	DIGAMBARE KANCHAN ARUNRAO	11
9	FATING SARANGG YOGIRAJ	13
10	FULKAR ANJALI ARUN	AA
11	GAUTAM DEENA RAVINDRA	12
12	GUPTA LABHESH ASHOK	12
13	GHATATE ANUJ CHANDRASHEKHAR	AA
14	HAJARE PRATIK UMESH	10
15	KHOT UTKARSHA LAXMAN	13
16	LANDE ASHWINI SATISH	15
17	LOKHANDE SONALI BHARAG	10
18	MALPEDDIWAR TEJAS RAMDAS	11
19	MENDWADE VAIBHAV NANDKISHOR	AA
20	NARBARIYA MAYANK VIJAY	15
21	PADWE PATHMESH MADHUKAR	AA
22	PAL MOHIT SURESH	12
23	PARATE ISHA KRUSHNA	13
24	PATLE PRAKASH HEMRAJ	15
25	POTFODE SUHAS SHRIRAM	16
26	RAJGIRE LALIT RAMCHANDRA	12
27	SAWARKAR ANKITA JAGDISH	17
29	VERMA OMESHWAR DNYANEHSWAR	AA

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BAGHEL ARATI YASHLAL	13
2	BHAMBARKAR YASHRAJ YUVRAJ	11
3	BHATNAGAR KARTIK VINEET	16
4	BILLORE PRANAY BABLU	10
5	GHODMARE ANJALI KRISHNAJI	13
6	JAMGADE SWATI VILAS	15

7	JATADHAR MAYURI RAM	AA
8	KANERKAR TANAY SUDHIR	11
9	KHAPRE JAISHREE VASUDEO	13
10	LAKUDKAR AKSHAY DILIP	14
11	LONARKAR VAISHNAVI ASHOK	15
12	MANDEKAR SHUBHANGI VIVEK	17
13	MANMODE POOJA DEEPAK	18
14	MASRAM VIJAY RAMU	12
15	NIMJE SHUBHAM MURLIDHAR	AA
16	NIRWAN GAURAV SANJAY	12
17	PALANDURKAR PRATIK SHEKHAR	AA
18	PARWE PADMAKSHI NARESH	13
19	PIRODA VIDHI NAROTTAM	12
20	SANODIYA MANU DILIP	15
21	SAWARKAR AISHWARYA ISHWAR	17
22	SELOKAR SHUBHANGI GOPICHAND	18
23	SHEIKH SHABNAM ABDUL	13
24	SHRAWANKAR RUTIK MUKUNDA	12
25	SULE SHALAKA AVINASH	15
26	TAPRE ROSHANI RAVINDRA	17
27	THAKRE JATIN DEVANAND	13
28	VAIDYA PRAJAKTA KRUSHNA	15
29	WAGHMARE RAGINI RAJESH	AA
30	ZILPE HARSHAL RAVINDRA	AA

  
**Prof . S. M. Ghatole**  
**Professor & Head**  
**Department of Electronics,**  
**Shri Shivaji Sciencia Collage,**  
**Congress Nagar, Nagpur,**

**Bachelor of Science (B.Sc.) Semester-VI Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-II)**  
**Unit Test -I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:15-02-2021**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat sketches wherever necessary.

**Attempt the following (20Marks)**

1. (A) What is Microcontroller ? Differentiate between microprocessor and microcontroller. Explain the PSW register and the function of the each bits of it. 1+4+5

**OR**

(B) Explain the internal RAM organization of 8051 microcontroller. 10

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*Shri Shivaji Education Society Amravati's*  
Science College, Congress Nagar, Nagpur

**Department of Electronics**

Class: B. Sc. (Semester-VI) Subject: Electronics (Paper-II)

Session: 2020 - 2021

**Unit Test - II**

Name of the Teacher: Dr. M. J. Hedau

Date: 19/04/2021

Batch: M3 (PEM)


<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AGLAW PALALVI SURESH	13
2	BHONGADE KRUTIK SHESHRAO	14
3	BONDRE SUNAYAN DINESH	12
4	CHANDEKAR BHAVANA ARVIND	16
5	CHAUDHRI SAURABH SUNIL	17
6	CHOUHAN SHRUTI MAHENDRASINGH	12
7	DAHIKAR PAYAL SHESHRAO	17
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11	GAUTAM DEENA RAVINDRA	12
12	GUPTA LABHESH ASHOK	11
13	GHATATE ANUJ CHANDRASHEKHAR	AA
14	HAJARE PRATIK UMESH	AA
15	KHOT UTKARSHA LAXMAN	13
16	LANDE ASHWINI SATISH	15
17	LOKHANDE SONALI BHARAG	AA
18	MALPEDDIWAR TEJAS RAMDAS	11
19	MENDWADE VAIBHAV NANDKISHOR	AA
20	NARBARIYA MAYANK VIJAY	15
21	PADWE PATHMESH MADHUKAR	16
22	PAL MOHIT SURESH	17
23	PARATE ISHA KRUSHNA	12
24	PATLE PRAKASH HEMRAJ	15
25	POTFODE SUHAS SHRIRAM	11
26	RAJGIRE LALIT RAMCHANDRA	13
27	SAWARKAR ANKITA JAGDISH	16
29	VERMA OMESHWAR DNYANEHSWAR	AA

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BAGHEL ARATI YASHLAL	16
2	BHAMBARKAR YASHRAJ YUVRAJ	11
3	BHATNAGAR KARTIK VINEET	12
4	BILLORE PRANAY BABLU	15
5	GHODMARE ANJALI KRISHNAJI	AA
6	JAMGADE SWATI VILAS	AA
7	JATADHAR MAYURI RAM	14
8	KANERKAR TANAY SUDHIR	12



9	KHAPRE JAISHREE VASUDEO	17
10	LAKUDKAR AKSHAY DILIP	12
11	LONARKAR VAISHNAVI ASHOK	15
12	MANDEKAR SHUBHANGI VIVEK	16
13	MANMODE POOJA DEEPAK	AA
14	MASRAM VIJAY RAMU	17
15	NIMJE SHUBHAM MURLIDHAR	13
16	NIRWAN GAURAV SANJAY	14
17	PALANDURKAR PRATIK SHEKHAR	16
18	PARWE PADMAKSHI NARESH	17
19	PIRODA VIDHI NAROTTAM	17
20	SANODIYA MANU DILIP	12
21	SAWARKAR AISHWARYA ISHWAR	12
22	SELOKAR SHUBHANGI GOPICHAND	15
23	SHEIKH SHABNAM ABDUL	12
24	SHRAWANKAR RUTIK MUKUNDA	17
25	SULE SHALAKA AVINASH	14
26	TAPRE ROSHANI RAVINDRA	12
27	THAKRE JATIN DEVANAND	16
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**Bachelor of Science (B.Sc.) Semester-VI Examination**  
**Session 2020 - 2021**  
**Electronics (Paper-II)**  
**Unit Test -II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:19-04-2021**

**Note:**

- (1) All questions are compulsory and carry equal marks.
- (2) Draw neat sketches wherever necessary.

**Attempt the following (20 Marks)**

(A) Explain the logical instructions ANL, RR and SWAP of microcontroller 8051 in detail. Explain any two addressing modes of 8051 microcontroller with suitable examples. 10

**OR**

(B) Explain all interrupts of 8051 microcontroller. Explain any five branching instructions of 8051 with suitable examples.

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