

**Department of Electronics**

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

**Session: 2021 - 2022**

**Unit Test - I**

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

Date: 16/09/2021


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BALAPURE PARI GAJANAN	10
2	BANSOD NIKHIL MILIND	11
3	BEDEKAR TUSHAR VAIBHAV	14
4	BHIWGADE SHRINAY YOGESH	10
5	DHADSE VAISHNAVI VIJAY	12
6	DHAKATE SAKSHI PRAMOD	6
7	JADHAV AASTHA SANJU	8
8	JOSHI ARTI SUBHASH	11
9	KHAPRE MUSKAN PRAKASH	10
10	KUKDE ABHINAV BHUPENDRA	9
11	LODHIKAR ANJALI NANESHWAR	9
12	MESHRAM NISHANT DUSHYANT	11
13	MESHRAM ROSHNI SHRIHARI	7
14	MISAR KHUSHI MANOJ	11
15	MISHRA MAHEK PRAMOD	12
16	PATEL LOKESH SHRINIWAS	14
17	PATHAK MUSKAN VINAY	16
18	SATHWANE SHUBHAM RAJENDRA	12
19	SHARMA SNEHA RANJAYKUMAR	11
20	SIRSAT VIKRANT DEVENDRA	6
21	SONPIMPALE YASH ARVIND	7
22	UKINKAR PIYUSH MANOHARRAO	11
23	WAGH SARANG VILAS	6
24	ZADE GAURI MUKESH	5
25	JAYSWAL ABHISHEK SANJEEV	7

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AMNERKAR ASHUTOSH DHARMENDRA	10
2	BARAI YOGESHREE DINESH	AA
3	BARAMATE KHUSHI SHASHIKANT	6
4	BARAPATRE ANIKET PURUSHOTTAM	12

5	DANGE PRATIKSHA BABAN	11
6	DESHBHRATAR PARMITA SIDDHARTH	AA
7	DOKWAL SHREYA NARENDRA	17
8	GUMGAONKAR PRATHMESH DINESH	11
9	JADHAV AKSHATA SUNIL	10
10	JIBHAKATE VAIDEHI SUNIL	8
11	JUNANKAR GAYATRI PRAVIN	7
12	KHIANI VISHAKA MANGHANLAL	18
13	KIRPAN AKANKSHA KUMESHWAR	15
14	KOCHE PRIYANSH BABURAO	11
15	KUMBHRE YASH RAMESHWAR	12
16	KUMRE PUSHPAK SUDESH	10
17	LANJEWAR SAKSHI MOTIRAM	13
18	MAKODE HARSHU CHANDU	10
19	NAGARDHANKAR SARVESH LILADHAR	12
20	PATIL RUDHALI RAMESH	13
21	RANGARI HARSHAL BHOJRAJ	AA
22	RAO KIRAN SHANTA	14
23	SAMARTH SHRUTI SUNIL	11
24	SANGITRAO VIPUL DIPAK	16
25	SONTAKKE NUPUL MAHENDRA	11
26	TAKALKHEDE DISHA SUNIL	10
27	TAMBUSKAR RUSHIKESH SATISHRAO	AA
28	THAKRE KRUTIKA NIRAJ	AA
29	UPRADE SAUMYA FULSING	AA
30	WAKDE SANCHIT CHANDRASHEKHAR	7

  
 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 2021 - 2022**  
**Electronics (Paper-I Topic: Unit-I)**  
**Unit Test -I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:16-09-2021**

**Note:**

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

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

- 1) What is resistor? What are the factors affecting resistance of a resistor? What are the types of resistors? Find the value of resistance with colour code sequence: Yellow, Violet, Orange, Gold..
- 2) Explain ideal voltage and current sources. Draw their symbol and I-V characteristics.
- 3) What is inductors? What are the factors affecting inductance of an inductor? What are the types of inductors?
- 4) Explain ideal voltage and current sources. Draw their I-V characteristics and symbols.
- 5) What is the difference between R.M.S. and the average values of a sinusoidal voltage?

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**Department of Electronics**

Class: B. Sc. (Semester-I) Subject: Electronics (Paper- I)  
Session: 2021 - 2022

**Unit Test - II**

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

Date: 30/10/2021


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BALAPURE PARI GAJANAN	10
2	BANSOD NIKHIL MILIND	11
3	BEDEKAR TUSHAR VAIBHAV	14
4	BHIWGADE SHRINAY YOGESH	10
5	DHADSE VAISHNAVI VIJAY	12
6	DHAKATE SAKSHI PRAMOD	6
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8	JOSHI ARTI SUBHASH	11
9	KHAPRE MUSKAN PRAKASH	10
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11	LODHIKAR ANJALI NANESHWAR	9
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15	MISHRA MAHEK PRAMOD	12
16	PATEL LOKESH SHRINIWAS	14
17	PATHAK MUSKAN VINAY	16
18	SATHWANE SHUBHAM RAJENDRA	12
19	SHARMA SNEHA RANJAYKUMAR	11
20	SIRSAT VIKRANT DEVENDRA	6
21	SONPIMPALE YASH ARVIND	7
22	UKINKAR PIYUSH MANOHARRAO	11
23	WAGH SARANG VILAS	6
24	ZADE GAURI MUKESH	5
25	JAYSWAL ABHISHEK SANJEEV	7

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AMNERKAR ASHUTOSH DHARMENDRA	10
2	BARAI YOGESHREE DINESH	AA
3	BARAMATE KHUSHI SHASHIKANT	6
4	BARAPATRE ANIKET PURUSHOTTAM	12

5	DANGE PRATIKSHA BABAN	11
6	DESHBHRATAR PARMITA SIDDHARTH	AA
7	DOKWAL SHREYA NARENDRA	17
8	GUMGAONKAR PRATHMESH DINESH	11
9	JADHAV AKSHATA SUNIL	10
10	JIBHAKATE VAIDEHI SUNIL	8
11	JUNANKAR GAYATRI PRAVIN	7
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14	KOCHE PRIYANSH BABURAO	11
15	KUMBHRE YASH RAMESHWAR	12
16	KUMRE PUSHPAK SUDESH	10
17	LANJEWAR SAKSHI MOTIRAM	13
18	MAKODE HARSHU CHANDU	10
19	NAGARDHANKAR SARVESH LILADHAR	12
20	PATIL RUDHALI RAMESH	13
21	RANGARI HARSHAL BHOJRAJ	AA
22	RAO KIRAN SHANTA	14
23	SAMARTH SHRUTI SUNIL	11
24	SANGITRAO VIPUL DIPAK	16
25	SONTAKKE NUPUL MAHENDRA	11
26	TAKALKHEDE DISHA SUNIL	10
27	TAMBUSKAR RUSHIKESH SATISHRAO	AA
28	THAKRE KRUTIKA NIRAJ	AA
29	UPRADE SAUMYA FULSING	AA
30	WAKDE SANCHIT CHANDRASHEKHAR	7

  
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 Congress Nagar, Nagpur.

**Bachelor of Science (B.Sc.) Semester - I Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-I Topic: Unit-II & III)**  
**Unit Test -II**

**Time: One Hour]**

**[Maximum Marks: 20**

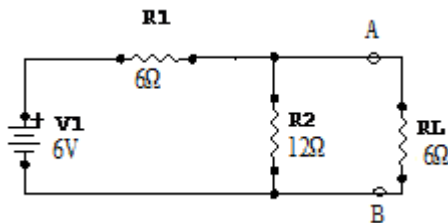
**Date:30-10-2021**

**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 the terms: Impedance, Inductive reactance and capacitive reactance.
- 2) Draw Thevenin's equivalent circuit and find the voltage across  $R_L$ .



- 3) State and explain Maximum Power Transfer theorem.
- 4) What is the difference between R.M.S. and the average values of a sinusoidal voltage?
- 5) Explain ideal voltage and current sources. Draw their I-V characteristics and symbols.

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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: 2021 - 2022

**Unit Test - I**

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

Date: 17/09/2021


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BALAPURE PARI GAJANAN	10
2	BANSOD NIKHIL MILIND	11
3	BEDEKAR TUSHAR VAIBHAV	14
4	BHIWGADE SHRINAY YOGESH	10
5	DHADSE VAISHNAVI VIJAY	12
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8	JOSHI ARTI SUBHASH	11
9	KHAPRE MUSKAN PRAKASH	10
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18	SATHWANE SHUBHAM RAJENDRA	12
19	SHARMA SNEHA RANJAYKUMAR	11
20	SIRSAT VIKRANT DEVENDRA	6
21	SONPIMPALE YASH ARVIND	7
22	UKINKAR PIYUSH MANOHARRAO	11
23	WAGH SARANG VILAS	6
24	ZADE GAURI MUKESH	5
25	JAYSWAL ABHISHEK SANJEEV	7

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AMNERKAR ASHUTOSH DHARMENDRA	10
2	BARAI YOGESHREE DINESH	AA
3	BARAMATE KHUSHI SHASHIKANT	6
4	BARAPATRE ANIKET PURUSHOTTAM	12
5	DANGE PRATIKSHA BABAN	11
6	DESHBHRATAR PARMITA SIDDHARTH	AA
7	DOKWAL SHREYA NARENDRA	17
8	GUMGAONKAR PRATHMESH DINESH	11

9	JADHAV AKSHATA SUNIL	10
10	JIBHAKATE VAIDEHI SUNIL	8
11	JUNANKAR GAYATRI PRAVIN	7
12	KHIANI VISHAKA MANGHANLAL	18
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16	KUMRE PUSHPAK SUDESH	10
17	LANJEWAR SAKSHI MOTIRAM	13
18	MAKODE HARSHU CHANDU	10
19	NAGARDHANKAR SARVESH LILADHAR	12
20	PATIL RUDHALI RAMESH	13
21	RANGARI HARSHAL BHOJRAJ	AA
22	RAO KIRAN SHANTA	14
23	SAMARTH SHRUTI SUNIL	11
24	SANGITRAO VIPUL DIPAK	16
25	SONTAKKE NUPUL MAHENDRA	11
26	TAKALKHEDE DISHA SUNIL	10
27	TAMBUSKAR RUSHIKESH SATISHRAO	AA
28	THAKRE KRUTIKA NIRAJ	AA
29	UPRADE SAUMYA FULSING	AA
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**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 2021 - 2022**  
**Electronics (Paper-II Topic: Unit-I)**  
**Unit Test -I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:17-09-2021**

**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 binary coded decimal number system.
- 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: 2021 - 2022

**Unit Test - II**

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

Date: 26/10/2021


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BALAPURE PARI GAJANAN	10
2	BANSOD NIKHIL MILIND	11
3	BEDEKAR TUSHAR VAIBHAV	14
4	BHIWGADE SHRINAY YOGESH	10
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22	UKINKAR PIYUSH MANOHARRAO	11
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24	ZADE GAURI MUKESH	5
25	JAYSWAL ABHISHEK SANJEEV	7

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AMNERKAR ASHUTOSH DHARMENDRA	10
2	BARAI YOGESHREE DINESH	AA
3	BARAMATE KHUSHI SHASHIKANT	6

4	BARAPATRE ANIKET PURUSHOTTAM	12
5	DANGE PRATIKSHA BABAN	11
6	DESHBHRATAR PARMITA SIDDHARTH	AA
7	DOKWAL SHREYA NARENDRA	17
8	GUMGAONKAR PRATHMESH DINESH	11
9	JADHAV AKSHATA SUNIL	10
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11	JUNANKAR GAYATRI PRAVIN	7
12	KHIANI VISHAKA MANGHANLAL	18
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15	KUMBHRE YASH RAMESHWAR	12
16	KUMRE PUSHPAK SUDESH	10
17	LANJEWAR SAKSHI MOTIRAM	13
18	MAKODE HARSHU CHANDU	10
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20	PATIL RUDHALI RAMESH	13
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27	TAMBUSKAR RUSHIKESH SATISHRAO	AA
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**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 2021 - 2022**  
**Electronics (Paper-II Topic: Unit-II)**  
**Unit Test-II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:26-10-2021**

**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) Explain all types of logic gates
- 3) Explain De'morgans theorem.
- 4) Explain the working of Half adder and Full adder.
- 5) Explain different types of Boolean law.

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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: 2021 - 2022

**Unit Test - I**

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


Date: 07/02/2022

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BALAPURE PARI GAJANAN	10
2	BANSOD NIKHIL MILIND	11
3	BEDEKAR TUSHAR VAIBHAV	14
4	BHIWGADE SHRINAY YOGESH	10
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Batch: M10 (ECsM)

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 Prof. S. M. Ghatole  
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**Bachelor of Science (B.Sc.) Semester-II Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-I)**  
**Unit Test-I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:07-02-2022**

**Note:**

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

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

- 1) What is Zener diode? Explain its use as a voltage regulator. Differentiate avalanche effect and zener effect. How are they useful?
- 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) Explain the construction and working of LED. Which materials are used for its construction? What are the applications of LED? Give the construction of a seven segment display.

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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: 2021 - 2022

**Unit Test - II**

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

Date: 15/03/2022

Batch: M3 (PEM)


<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BALAPURE PARI GAJANAN	10
2	BANSOD NIKHIL MILIND	11
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4	BHIWGADE SHRINAY YOGESH	10
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Batch: M10 (ECsM)

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27	TAMBUSKAR RUSHIKESH SATISHRAO	AA
28	THAKRE KRUTIKA NIRAJ	AA
29	UPRADE SAUMYA FULSING	AA
30	WAKDE SANCHIT CHANDRASHEKHAR	7

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

**Bachelor of Science (B.Sc.) Semester-II Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-I)**  
**Unit Test -II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:15-03-2022**

**Note:**

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

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

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

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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: - 2021 - 2022

**Unit Test - I**

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

Date: 08/02/2022


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BALAPURE PARI GAJANAN	10
2	BANSOD NIKHIL MILIND	11
3	BEDEKAR TUSHAR VAIBHAV	14
4	BHIWGADE SHRINAY YOGESH	10
5	DHADSE VAISHNAVI VIJAY	12
6	DHAKATE SAKSHI PRAMOD	6
7	JADHAV AASTHA SANJU	8
8	JOSHI ARTI SUBHASH	11
9	KHAPRE MUSKAN PRAKASH	10
10	KUKDE ABHINAV BHUPENDRA	9
11	LODHIKAR ANJALI NANESHWAR	9
12	MESHRAM NISHANT DUSHYANT	11
13	MESHRAM ROSHNI SHRIHARI	7
14	MISAR KHUSHI MANOJ	11
15	MISHRA MAHEK PRAMOD	12
16	PATEL LOKESH SHRINIWAS	14
17	PATHAK MUSKAN VINAY	16
18	SATHWANE SHUBHAM RAJENDRA	12
19	SHARMA SNEHA RANJAYKUMAR	11
20	SIRSAT VIKRANT DEVENDRA	6
21	SONPIMPALE YASH ARVIND	7
22	UKINKAR PIYUSH MANOHARRAO	11
23	WAGH SARANG VILAS	6
24	ZADE GAURI MUKESH	5
25	JAYSWAL ABHISHEK SANJEEV	7

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AMNERKAR ASHUTOSH DHARMENDRA	10
2	BARAI YOGESHREE DINESH	AA
3	BARAMATE KHUSHI SHASHIKANT	6
4	BARAPATRE ANIKET PURUSHOTTAM	12
5	DANGE PRATIKSHA BABAN	11
6	DESHBHRATAR PARMITA SIDDHARTH	AA
7	DOKWAL SHREYA NARENDRA	17
8	GUMGAONKAR PRATHMESH DINESH	11

9	JADHAV AKSHATA SUNIL	10
10	JIBHAKATE VAIDEHI SUNIL	8
11	JUNANKAR GAYATRI PRAVIN	7
12	KHIANI VISHAKA MANGHANLAL	18
13	KIRPAN AKANKSHA KUMESHWAR	15
14	KOCHE PRIYANSH BABURAO	11
15	KUMBHRE YASH RAMESHWAR	12
16	KUMRE PUSHPAK SUDESH	10
17	LANJEWAR SAKSHI MOTIRAM	13
18	MAKODE HARSHU CHANDU	10
19	NAGARDHANKAR SARVESH LILADHAR	12
20	PATIL RUDHALI RAMESH	13
21	RANGARI HARSHAL BHOJRAJ	AA
22	RAO KIRAN SHANTA	14
23	SAMARTH SHRUTI SUNIL	11
24	SANGITRAO VIPUL DIPAK	16
25	SONTAKKE NUPUL MAHENDRA	11
26	TAKALKHEDE DISHA SUNIL	10
27	TAMBUSKAR RUSHIKESH SATISHRAO	AA
28	THAKRE KRUTIKA NIRAJ	AA
29	UPRADE SAUMYA FULSING	AA
30	WAKDE SANCHIT CHANDRASHEKHAR	7

  
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**Bachelor of Science (B.Sc.) Semester-II Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-II)**  
**Unit Test - I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:08-02-2022**

**Note:**

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

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

- 1) 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?
- 5) What is offset null?

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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: 2021 - 2022

**Unit Test - II**

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

Date: 19/03/2022


Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BALAPURE PARI GAJANAN	10
2	BANSOD NIKHIL MILIND	11
3	BEDEKAR TUSHAR VAIBHAV	14
4	BHIWGADE SHRINAY YOGESH	10
5	DHADSE VAISHNAVI VIJAY	12
6	DHAKATE SAKSHI PRAMOD	6
7	JADHAV AASTHA SANJU	8
8	JOSHI ARTI SUBHASH	11
9	KHAPRE MUSKAN PRAKASH	10
10	KUKDE ABHINAV BHUPENDRA	9
11	LODHIKAR ANJALI NANESHWAR	9
12	MESHRAM NISHANT DUSHYANT	11
13	MESHRAM ROSHNI SHRIHARI	7
14	MISAR KHUSHI MANOJ	11
15	MISHRA MAHEK PRAMOD	12
16	PATEL LOKESH SHRINIWAS	14
17	PATHAK MUSKAN VINAY	16
18	SATHWANE SHUBHAM RAJENDRA	12
19	SHARMA SNEHA RANJAYKUMAR	11
20	SIRSAT VIKRANT DEVENDRA	6
21	SONPIMPALE YASH ARVIND	7
22	UKINKAR PIYUSH MANOHARRAO	11
23	WAGH SARANG VILAS	6
24	ZADE GAURI MUKESH	5
25	JAYSWAL ABHISHEK SANJEEV	7

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AMNERKAR ASHUTOSH DHARMENDRA	10
2	BARAI YOGESHREE DINESH	AA
3	BARAMATE KHUSHI SHASHIKANT	6
4	BARAPATRE ANIKET PURUSHOTTAM	12
5	DANGE PRATIKSHA BABAN	11
6	DESHBHRATAR PARMITA SIDDHARTH	AA
7	DOKWAL SHREYA NARENDRA	17

8	GUMGAONKAR PRATHMESH DINESH	11
9	JADHAV AKSHATA SUNIL	10
10	JIBHAKATE VAIDEHI SUNIL	8
11	JUNANKAR GAYATRI PRAVIN	7
12	KHIANI VISHAKA MANGHANLAL	18
13	KIRPAN AKANKSHA KUMESHWAR	15
14	KOCHE PRIYANSH BABURAO	11
15	KUMBHRE YASH RAMESHWAR	12
16	KUMRE PUSHPAK SUDESH	10
17	LANJEWAR SAKSHI MOTIRAM	13
18	MAKODE HARSHU CHANDU	10
19	NAGARDHANKAR SARVESH LILADHAR	12
20	PATIL RUDHALI RAMESH	13
21	RANGARI HARSHAL BHOJRAJ	AA
22	RAO KIRAN SHANTA	14
23	SAMARTH SHRUTI SUNIL	11
24	SANGITRAO VIPUL DIPAK	16
25	SONTAKKE NUPUL MAHENDRA	11
26	TAKALKHEDE DISHA SUNIL	10
27	TAMBUSKAR RUSHIKESH SATISHRAO	AA
28	THAKRE KRUTIKA NIRAJ	AA
29	UPRADE SAUMYA FULSING	AA
30	WAKDE SANCHIT CHANDRASHEKHAR	7

  
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**Bachelor of Science (B.Sc.) Semester-II Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-II)**  
**Unit Test - II**

**Time: One Hour]**

**[Maximum Marks: 20**

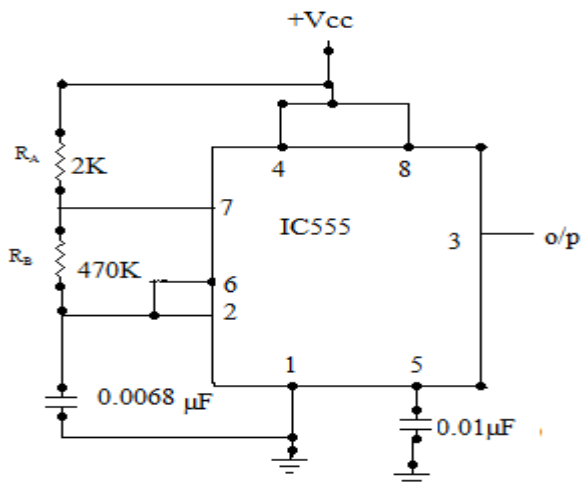
**Date:19-03-2022**

**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) Find frequency and duty cycle from the given circuit diagram.



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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: 2021 - 2022

**Unit Test - I**

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

Date: 21/09/2021


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	10
2	BANGDE ANSH PURUSHOTTAM	11
3	BASOPURKAR SARAS PRAKASH	AA
4	BODKHE PRATIKSHA DILIP	12
5	BOMLE TANMAY VIJAY	10
6	BOTHLIKAR MUNISH SADASHIV	8
7	CHATAP DIPTI NILKANTH	7
8	DATAR MITALI SUNIL	12
9	DINESHWAR PUNAM BHOLRAM	12
10	DESHMUKH SOHAM PRASHANT	14
11	DESHPANDE MIUKTA RAVINDRA	12
12	DURGE RUPALI RAJU	15
13	GADGE ANIKET PARSHURAM	12
14	GEETHEY PRATHA RAJESH	13
15	KALE NISHANT UMRAO	12
16	KIRNAKE NALINI DEEPAK	14
17	MADAVI PIYUSH PUNDLIK	12
18	MAHAKALKAR RAHUL VINODRAO	AA
19	MANDVE SAMEER CHANDU	8
20	MISHRA PRASHANT RAMKIRTAN	8
21	NAYAK RUPALI RAVINDRA	7
22	POHARE SHUBHAM SHASHIKANT	12
23	RAUT SHRADDHA VISHWAS	10
24	SHEIKH SIMRAN FATEMA	12
25	TINGURIA ADARSH ATUL	10
26	VYAS JIGAR VIRBHADRANATH	12
27	WANKHEDE DIKSHA SANAJY	13

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BACHALE HIMANSHU JAGESHWAR	AA
2	BANSOD ROHAN RAMBHAU	AA
3	BHENDE SAMIDHA ABHAY	12
4	CHAUDHARI SHARVARI SANJAY	14
5	DURGE RISHIKA JAGDISH	15

6	FASATE ABHISHEK NARENDRA	10
7	GHAGRE HARSHAL YUVRAJ	12
8	GHUGAL KALYANI PANDHARI	10
9	GURAO TEJAS VINOD	12
10	KHANAPURKAR MRUNALINI MOHAN	14
11	KOLHE SAKSHI KANCHAN	11
12	KORDE TANISHQ ARVIND	12
13	KULMETHE JAYASHRI VISHNU	8
14	LANJEWAR JYOTI RAMESH	7
15	LOKHANDE AVANTIKA GURUDAS	8
16	MASKE TANMAY PRADIPRAO	9
17	MENDHE ANIKET JAGDISH	11
18	MESHARAM ANCHAL JIYALAL	9
19	MISHRA NIKITA GAYAPRASAD	7
20	NANDANWAR YOGESH WAMAN	12
21	NEWARE ATHARVA RAMESHRAO	11
22	PADMAWAR SAMRUDHI SANJAY	12
23	PARISE PRATHMESH JITENDRA	13
24	PARDHI JANHAVI PRABHAKR	11
25	PIMPARKAR DNYANESH JAYANT	10
26	POUNIKAR PRANAYA SURESH	5
27	RATHOD VISHAL RAMLAL	6
28	ROKADE ARPIT GANESH	7
29	SHIVANKAR DHANASHRI ANANDRAO	8
30	SUTSONKAR KALYANI SANTOSH	12
31	THAKUR SIYA AMARSINGH	12
32	UPASE KETKI SHIVDAS	13
33	WARKHADE PRANAY SOFAN	9
34	ZOMBADE BHUSHAN KISAN	10

  
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**Bachelor of Science (B.Sc.) Semester-III Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-I)**  
**Unit Test-I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:21-09-2021**

**Note:**

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

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

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

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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: 2021 - 2022

**Unit Test - II**

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

Date: 20/10/2021


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	10
2	BANGDE ANSH PURUSHOTTAM	11
3	BASOPURKAR SARAS PRAKASH	AA
4	BODKHE PRATIKSHA DILIP	12
5	BOMLE TANMAY VIJAY	10
6	BOTHLIKAR MUNISH SADASHIV	8
7	CHATAP DIPTI NILKANTH	7
8	DATAR MITALI SUNIL	12
9	DINESHWAR PUNAM BHOLRAM	12
10	DESHMUKH SOHAM PRASHANT	14
11	DESHPANDE MIUKTA RAVINDRA	12
12	DURGE RUPALI RAJU	15
13	GADGE ANIKET PARSHURAM	12
14	GEETHEY PRATHA RAJESH	13
15	KALE NISHANT UMRAO	12
16	KIRNAKE NALINI DEEPAK	14
17	MADAVI PIYUSH PUNDLIK	12
18	MAHAKALKAR RAHUL VINODRAO	AA
19	MANDVE SAMEER CHANDU	8
20	MISHRA PRASHANT RAMKIRTAN	8
21	NAYAK RUPALI RAVINDRA	7
22	POHARE SHUBHAM SHASHIKANT	12
23	RAUT SHRADDHA VISHWAS	10
24	SHEIKH SIMRAN FATEMA	12
25	TINGURIA ADARSH ATUL	10
26	VYAS JIGAR VIRBHADRANATH	12
27	WANKHEDE DIKSHA SANAJY	13

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BACHALE HIMANSHU JAGESHWAR	AA
2	BANSOD ROHAN RAMBHAU	AA
3	BHENDE SAMIDHA ABHAY	12
4	CHAUDHARI SHARVARI SANJAY	14
5	DURGE RISHIKA JAGDISH	15

6	FASATE ABHISHEK NARENDRA	10
7	GHAGRE HARSHAL YUVRAJ	12
8	GHUGAL KALYANI PANDHARI	10
9	GURAO TEJAS VINOD	12
10	KHANAPURKAR MRUNALINI MOHAN	14
11	KOLHE SAKSHI KANCHAN	11
12	KORDE TANISHQ ARVIND	12
13	KULMETHE JAYASHRI VISHNU	8
14	LANJEWAR JYOTI RAMESH	7
15	LOKHANDE AVANTIKA GURUDAS	8
16	MASKE TANMAY PRADIPRAO	9
17	MENDHE ANIKET JAGDISH	11
18	MESHAM ANCHAL JIYALAL	9
19	MISHRA NIKITA GAYAPRASAD	7
20	NANDANWAR YOGESH WAMAN	12
21	NEWARE ATHARVA RAMESHRAO	11
22	PADMAWAR SAMRUDHI SANJAY	12
23	PARISE PRATHMESH JITENDRA	13
24	PARDHI JANHAVI PRABHAKR	11
25	PIMPARKAR DNYANESH JAYANT	10
26	POUNIKAR PRANAYA SURESH	5
27	RATHOD VISHAL RAMLAL	6
28	ROKADE ARPIT GANESH	7
29	SHIVANKAR DHANASHRI ANANDRAO	8
30	SUTSONKAR KALYANI SANTOSH	12
31	THAKUR SIYA AMARSINGH	12
32	UPASE KETKI SHIVDAS	13
33	WARKHADE PRANAY SOFAN	9
34	ZOMBADE BHUSHAN KISAN	10

  
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**Bachelor of Science (B.Sc.) Semester-III Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-II Topic: Analogue and digital circuit)**  
**Unit Test -II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:20-10-2021**

**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 |

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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: 2021 - 2022

**Unit Test - I**

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

Date: 14/02/2022


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 PURUSHOTTAM	11
3	BASOPURKAR SARAS PRAKASH	AA
4	BODKHE PRATIKSHA DILIP	12
5	BOMLE TANMAY VIJAY	10
6	BOTHLIKAR MUNISH SADASHIV	8
7	CHATAP DIPTI NILKANTH	7
8	DATAR MITALI SUNIL	12
9	DINESHWAR PUNAM BHOLRAM	12
10	DESHMUKH SOHAM PRASHANT	14
11	DESHPANDE MIUKTA RAVINDRA	12
12	DURGE RUPALI RAJU	15
13	GADGE ANIKET PARSHURAM	12
14	GEETHEY PRATHA RAJESH	13
15	KALE NISHANT UMRAO	12
16	KIRNAKE NALINI DEEPAK	14
17	MADAVI PIYUSH PUNDLIK	12
18	MAHAKALKAR RAHUL VINODRAO	AA
19	MANDVE SAMEER CHANDU	8
20	MISHRA PRASHANT RAMKIRTAN	8
21	NAYAK RUPALI RAVINDRA	7
22	POHARE SHUBHAM SHASHIKANT	12
23	RAUT SHRADDHA VISHWAS	10
24	SHEIKH SIMRAN FATEMA	12
25	TINGURIA ADARSH ATUL	10
26	VYAS JIGAR VIRBHADRANATH	12
27	WANKHEDE DIKSHA SANAJY	13

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BACHALE HIMANSHU JAGESHWAR	AA
2	BANSOD ROHAN RAMBHAU	AA
3	BHENDE SAMIDHA ABHAY	12
4	CHAUDHARI SHARVARI SANJAY	14
5	DURGE RISHIKA JAGDISH	15

6	FASATE ABHISHEK NARENDRA	10
7	GHAGRE HARSHAL YUVRAJ	12
8	GHUGAL KALYANI PANDHARI	10
9	GURAO TEJAS VINOD	12
10	KHANAPURKAR MRUNALINI MOHAN	14
11	KOLHE SAKSHI KANCHAN	11
12	KORDE TANISHQ ARVIND	12
13	KULMETHE JAYASHRI VISHNU	8
14	LANJEWAR JYOTI RAMESH	7
15	LOKHANDE AVANTIKA GURUDAS	8
16	MASKE TANMAY PRADIPRAO	9
17	MENDHE ANIKET JAGDISH	11
18	MESHARAM ANCHAL JIYALAL	9
19	MISHRA NIKITA GAYAPRASAD	7
20	NANDANWAR YOGESH WAMAN	12
21	NEWARE ATHARVA RAMESHRAO	11
22	PADMAWAR SAMRUDHI SANJAY	12
23	PARISE PRATHMESH JITENDRA	13
24	PARDHI JANHAVI PRABHAKR	11
25	PIMPARKAR DNYANESH JAYANT	10
26	POUNIKAR PRANAYA SURESH	5
27	RATHOD VISHAL RAMLAL	6
28	ROKADE ARPIT GANESH	7
29	SHIVANKAR DHANASHRI ANANDRAO	8
30	SUTSONKAR KALYANI SANTOSH	12
31	THAKUR SIYA AMARSINGH	12
32	UPASE KETKI SHIVDAS	13
33	WARKHADE PRANAY SOFAN	9
34	ZOMBADE BHUSHAN KISAN	10

  
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**Bachelor of Science (B.Sc.) Semester-IV Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-I)**  
**Unit Test -I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:14-02-2022**

**Note:**

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

**Attempt any four. (20)**

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

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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: 2021 - 2022

**Unit Test - II**

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

Date: 21/03/2022


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 PURUSHOTTAM	11
3	BASOPURKAR SARAS PRAKASH	AA
4	BODKHE PRATIKSHA DILIP	12
5	BOMLE TANMAY VIJAY	10
6	BOTHLIKAR MUNISH SADASHIV	8
7	CHATAP DIPTI NILKANTH	7
8	DATAR MITALI SUNIL	12
9	DINESHWAR PUNAM BHOLRAM	12
10	DESHMUKH SOHAM PRASHANT	14
11	DESHPANDE MIUKTA RAVINDRA	12
12	DURGE RUPALI RAJU	15
13	GADGE ANIKET PARSHURAM	12
14	GEETHEY PRATHA RAJESH	13
15	KALE NISHANT UMRAO	12
16	KIRNAKE NALINI DEEPAK	14
17	MADAVI PIYUSH PUNDLIK	12
18	MAHAKALKAR RAHUL VINODRAO	AA
19	MANDVE SAMEER CHANDU	8
20	MISHRA PRASHANT RAMKIRTAN	8
21	NAYAK RUPALI RAVINDRA	7
22	POHARE SHUBHAM SHASHIKANT	12
23	RAUT SHRADDHA VISHWAS	10
24	SHEIKH SIMRAN FATEMA	12
25	TINGURIA ADARSH ATUL	10
26	VYAS JIGAR VIRBHADRANATH	12
27	WANKHEDE DIKSHA SANAJY	13

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BACHALE HIMANSHU JAGESHWAR	AA
2	BANSOD ROHAN RAMBHAU	AA
3	BHENDE SAMIDHA ABHAY	12
4	CHAUDHARI SHARVARI SANJAY	14
5	DURGE RISHIKA JAGDISH	15

6	FASATE ABHISHEK NARENDRA	10
7	GHAGRE HARSHAL YUVRAJ	12
8	GHUGAL KALYANI PANDHARI	10
9	GURAO TEJAS VINOD	12
10	KHANAPURKAR MRUNALINI MOHAN	14
11	KOLHE SAKSHI KANCHAN	11
12	KORDE TANISHQ ARVIND	12
13	KULMETHE JAYASHRI VISHNU	8
14	LANJEWAR JYOTI RAMESH	7
15	LOKHANDE AVANTIKA GURUDAS	8
16	MASKE TANMAY PRADIPRAO	9
17	MENDHE ANIKET JAGDISH	11
18	MESHARAM ANCHAL JIYALAL	9
19	MISHRA NIKITA GAYAPRASAD	7
20	NANDANWAR YOGESH WAMAN	12
21	NEWARE ATHARVA RAMESHRAO	11
22	PADMAWAR SAMRUDHI SANJAY	12
23	PARISE PRATHMESH JITENDRA	13
24	PARDHI JANHAVI PRABHAKR	11
25	PIMPARKAR DNYANESH JAYANT	10
26	POUNIKAR PRANAYA SURESH	5
27	RATHOD VISHAL RAMLAL	6
28	ROKADE ARPIT GANESH	7
29	SHIVANKAR DHANASHRI ANANDRAO	8
30	SUTSONKAR KALYANI SANTOSH	12
31	THAKUR SIYA AMARSINGH	12
32	UPASE KETKI SHIVDAS	13
33	WARKHADE PRANAY SOFAN	9
34	ZOMBADE BHUSHAN KISAN	10

  
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**Bachelor of Science (B.Sc.) Semester-IV Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-I)**  
**Unit Test -II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:21-03-2022**

**Note:**

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

**Attempt any four. (20)**

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

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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: 2021 - 2022

**Unit Test - I**

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

Date: 22/09/2021


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	10
2	BANGDE ANSH PURUSHOTTAM	11
3	BASOPURKAR SARAS PRAKASH	AA
4	BODKHE PRATIKSHA DILIP	12
5	BOMLE TANMAY VIJAY	10
6	BOTHLIKAR MUNISH SADASHIV	8
7	CHATAP DIPTI NILKANTH	7
8	DATAR MITALI SUNIL	12
9	DINESHWAR PUNAM BHOLRAM	12
10	DESHMUKH SOHAM PRASHANT	14
11	DESHPANDE MIUKTA RAVINDRA	12
12	DURGE RUPALI RAJU	15
13	GADGE ANIKET PARSHURAM	12
14	GEETHEY PRATHA RAJESH	13
15	KALE NISHANT UMRAO	12
16	KIRNAKE NALINI DEEPAK	14
17	MADAVI PIYUSH PUNDLIK	12
18	MAHAKALKAR RAHUL VINODRAO	AA
19	MANDVE SAMEER CHANDU	8
20	MISHRA PRASHANT RAMKIRTAN	8
21	NAYAK RUPALI RAVINDRA	7
22	POHARE SHUBHAM SHASHIKANT	12
23	RAUT SHRADDHA VISHWAS	10
24	SHEIKH SIMRAN FATEMA	12
25	TINGURIA ADARSH ATUL	10
26	VYAS JIGAR VIRBHADRANATH	12
27	WANKHEDE DIKSHA SANAJY	13

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BACHALE HIMANSHU JAGESHWAR	AA
2	BANSOD ROHAN RAMBHAU	AA
3	BHENDE SAMIDHA ABHAY	12
4	CHAUDHARI SHARVARI SANJAY	14
5	DURGE RISHIKA JAGDISH	15

6	FASATE ABHISHEK NARENDRA	10
7	GHAGRE HARSHAL YUVRAJ	12
8	GHUGAL KALYANI PANDHARI	10
9	GURAO TEJAS VINOD	12
10	KHANAPURKAR MRUNALINI MOHAN	14
11	KOLHE SAKSHI KANCHAN	11
12	KORDE TANISHQ ARVIND	12
13	KULMETHE JAYASHRI VISHNU	8
14	LANJEWAR JYOTI RAMESH	7
15	LOKHANDE AVANTIKA GURUDAS	8
16	MASKE TANMAY PRADIPRAO	9
17	MENDHE ANIKET JAGDISH	11
18	MESHARAM ANCHAL JIYALAL	9
19	MISHRA NIKITA GAYAPRASAD	7
20	NANDANWAR YOGESH WAMAN	12
21	NEWARE ATHARVA RAMESHRAO	11
22	PADMAWAR SAMRUDHI SANJAY	12
23	PARISE PRATHMESH JITENDRA	13
24	PARDHI JANHAVI PRABHAKR	11
25	PIMPARKAR DNYANESH JAYANT	10
26	POUNIKAR PRANAYA SURESH	5
27	RATHOD VISHAL RAMLAL	6
28	ROKADE ARPIT GANESH	7
29	SHIVANKAR DHANASHRI ANANDRAO	8
30	SUTSONKAR KALYANI SANTOSH	12
31	THAKUR SIYA AMARSINGH	12
32	UPASE KETKI SHIVDAS	13
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**Bachelor of Science (B.Sc.) Semester-IV Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-II)**  
**Unit Test -I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:22-09-2021**

**Note:**

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

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

(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)

2. (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)

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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: 2021 - 2022

**Unit Test - II**

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

Date: 28/02/2022

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 PURUSHOTTAM	11
3	BASOPURKAR SARAS PRAKASH	AA
4	BODKHE PRATIKSHA DILIP	12
5	BOMLE TANMAY VIJAY	10
6	BOTHLIKAR MUNISH SADASHIV	8
7	CHATAP DIPTI NILKANTH	7
8	DATAR MITALI SUNIL	12
9	DINESHWAR PUNAM BHOLRAM	12
10	DESHMUKH SOHAM PRASHANT	14
11	DESHPANDE MIUKTA RAVINDRA	12
12	DURGE RUPALI RAJU	15
13	GADGE ANIKET PARSHURAM	12
14	GEETHEY PRATHA RAJESH	13
15	KALE NISHANT UMRAO	12
16	KIRNAKE NALINI DEEPAK	14
17	MADAVI PIYUSH PUNDLIK	12
18	MAHAKALKAR RAHUL VINODRAO	AA
19	MANDVE SAMEER CHANDU	8
20	MISHRA PRASHANT RAMKIRTAN	8
21	NAYAK RUPALI RAVINDRA	7
22	POHARE SHUBHAM SHASHIKANT	12
23	RAUT SHRADDHA VISHWAS	10
24	SHEIKH SIMRAN FATEMA	12
25	TINGURIA ADARSH ATUL	10
26	VYAS JIGAR VIRBHADRANATH	12
27	WANKHEDE DIKSHA SANAJY	13

Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	BACHALE HIMANSHU JAGESHWAR	AA
2	BANSOD ROHAN RAMBHAU	AA
3	BHENDE SAMIDHA ABHAY	12
4	CHAUDHARI SHARVARI SANJAY	14
5	DURGE RISHIKA JAGDISH	15



6	FASATE ABHISHEK NARENDRA	10
7	GHAGRE HARSHAL YUVRAJ	12
8	GHUGAL KALYANI PANDHARI	10
9	GURAO TEJAS VINOD	12
10	KHANAPURKAR MRUNALINI MOHAN	14
11	KOLHE SAKSHI KANCHAN	11
12	KORDE TANISHQ ARVIND	12
13	KULMETHE JAYASHRI VISHNU	8
14	LANJEWAR JYOTI RAMESH	7
15	LOKHANDE AVANTIKA GURUDAS	8
16	MASKE TANMAY PRADIPRAO	9
17	MENDHE ANIKET JAGDISH	11
18	MESHAM ANCHAL JIYALAL	9
19	MISHRA NIKITA GAYAPRASAD	7
20	NANDANWAR YOGESH WAMAN	12
21	NEWARE ATHARVA RAMESHRAO	11
22	PADMAWAR SAMRUDHI SANJAY	12
23	PARISE PRATHMESH JITENDRA	13
24	PARDHI JANHAVI PRABHAKR	11
25	PIMPARKAR DNYANESH JAYANT	10
26	POUNIKAR PRANAYA SURESH	5
27	RATHOD VISHAL RAMLAL	6
28	ROKADE ARPIT GANESH	7
29	SHIVANKAR DHANASHRI ANANDRAO	8
30	SUTSONKAR KALYANI SANTOSH	12
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**Bachelor of Science (B.Sc.) Semester-IV Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-II)**  
**Unit Test -II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:28-02-2022**

**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: 2021 - 2022

**Unit Test - I**

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

Date: 16/09/2021


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	9
2	BAGHEL VIVEK SURENDRABABU	4
3	BOPCHE BHARTI ASHOK	4
4	CHAVAN SHANTANU PREMDAS	10
5	GUPTA LOKESH DHARMENDRA	5
6	KAMBLE VIPLAV VIRENDRA	11
7	KHAPEKAR ANUJ MANGESH	13
8	KIRTIWAR PRIYANKA RAJESH	AA
9	MANDHARE SURAJ RAJESH	AA
10	MASRAM SANKET SHATRUGHANRAO	11
11	MENDHULKAR MANSHREE PURUSHOTTAM	12
12	MESHRAM ISHA KAWDUJI	12
13	MORE GANESH ANANDRAO	9
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	12
20	VERMA JAYA SUKHCEN	15
21	WAHANE SAKSHIT JANARDHAN	10
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	11
2	AGRAWAL PRAJWAL GOPAL	10
3	ATEY ASHUTOSH RANJIT	12
4	BANSULE ADITYA MANOHAR	7
5	BIDKAR SAKSHI HEMANT	AA
6	CHANDURKAR SIDDHARTH MANOJ	AA
7	DUDHE MAYURI SUDHIR	AA
8	GEDAM PRAJAKTA GAJANAN	10
9	GOUR PRACHI RAJU	8
10	HADKE SEJAL SUDHIR	7
11	INGLE MINAL DHARAMDIP	12
12	JAKKANWAR SEJAL KRISHNAKANT	11
13	KAMDE ANJALI RAJU	AA
14	KASAR HEMANSHU GOLISH	9

15	KOVE SHRUTI DINESH	10
16	MESHARAM HEMANT SUNIL	AA
17	MOGRE SAMIKSHA SHANKAR	12
18	NANDANKAR SIMRAN GANESH	10
19	NAYAK NISHA JAGESHWARLAL	8
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	6
26	RAJPUT VIKAS ANANDKISHOR	7
27	RAUT AISHWARYA KRISHNA	AA
28	SELOKAR GIRISH GOPICHAND	AA
29	SINGH NIDHI RAKESH	14
30	UGEMUGE DIPALI ARVINDRAO	11
31	TIWARI URJA RAVIPRAKASH	10

  
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**Bachelor of Science (B.Sc.) Semester-V Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-I)**  
**Unit Test -I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:16-09-2021**

**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: 2021 - 2022

**Unit Test - II**

Name of the Teacher: Mrs. S. A. Sagdeo

Date: 25/10/2021


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	14
2	BAGHEL VIVEK SURENDRABABU	AA
3	BOPCHE BHARTI ASHOK	9
4	CHAVAN SHANTANU PREMDAS	17
5	GUPTA LOKESH DHARMENDRA	10
6	KAMBLE VIPLAV VIRENDRA	10
7	KHAPEKAR ANUJ MANGESH	11
8	KIRTIWAR PRIYANKA RAJESH	12
9	MANDHARE SURAJ RAJESH	AA
10	MASRAM SANKET SHATRUGHANRAO	11
11	MENDHULKAR MANSHREE PURUSHOTTAM	AA
12	MESHARAM ISHA KAWDUJI	12
13	MORE GANESH ANANDRAO	AA
14	NIMKAR JANHAVVI CHANRRASHEKHAR	14
15	PANJWANI KHUSHI MULCHAND	10
16	RAUT PRACHI RAMAJI	11
17	SAHU SAPNA HARISHANKAR	10
18	SELOKAR SHIVAM TAMESHWAR	12
19	SONTAKKE SAKSHI ANIL	13
20	VERMA JAYA SUKHCEN	10
21	WAHANE SAKSHIT JANARDHAN	9
22	WANKHEDE AYUSH SANJAY	7

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	11
2	AGRAWAL PRAJWAL GOPAL	11
3	ATEY ASHUTOSH RANJIT	10
4	BANSULE ADITYA MANOHAR	7
5	BIDKAR SAKSHI HEMANT	11
6	CHANDURKAR SIDDHARTH MANOJ	AA
7	DUDHE MAYURI SUDHIR	9
8	GEDAM PRAJAKTA GAJANAN	11
9	GOUR PRACHI RAJU	AA
10	HADKE SEJAL SUDHIR	11
11	INGLE MINAL DHARAMDIP	12
12	JAKKANWAR SEJAL KRISHNAKANT	AA
13	KAMDE ANJALI RAJU	9
14	KASAR HEMANSHU GOLISH	AA

15	KOVE SHRUTI DINESH	11
16	MESHARAM HEMANT SUNIL	AA
17	MOGRE SAMIKSHA SHANKAR	14
18	NANDANKAR SIMRAN GANESH	11
19	NAYAK NISHA JAGESHWARLAL	8
20	NIMJE APEKSHA DHARMENDRA	12
21	NAIK VANSHIKA SIDDHARTH	11
22	NAVGHARE SAMPADA RAJENDRA	12
23	PITRODA CHHABIL NAROTTAM	11
24	PRADHAN RASHMITA RATNAKAR	13
25	RAHELE PANKAJ ARVIND	AA
26	RAJPUT VIKAS ANANDKISHOR	7
27	RAUT AISHWARYA KRISHNA	10
28	SELOKAR GIRISH GOPICHAND	9
29	SINGH NIDHI RAKESH	6
30	UGEMUGE DIPALI ARVINDRAO	10
31	TIWARI URJA RAVIPRAKASH	4

  
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**Bachelor of Science (B.Sc.) Semester-V Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-I)**  
**Unit Test -II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:25-10-2021**

**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.

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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: 2021 - 2022

**Unit Test - I**

Name of the Teacher: Mrs. S. A. Sagdeo

Date: 16/09/2021


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	7
2	BAGHEL VIVEK SURENDRABABU	5
3	BOPCHE BHARTI ASHOK	10
4	CHAVAN SHANTANU PREMDAS	10
5	GUPTA LOKESH DHARMENDRA	11
6	KAMBLE VIPLAV VIRENDRA	AA
7	KHAPEKAR ANUJ MANGESH	10
8	KIRTIWAR PRIYANKA RAJESH	AA
9	MANDHARE SURAJ RAJESH	10
10	MASRAM SANKET SHATRUGHANRAO	12
11	MENDHULKAR MANSHREE PURUSHOTTAM	14
12	MESHRAM ISHA KAWDUJI	10
13	MORE GANESH ANANDRAO	7
14	NIMKAR JANHAVVI CHANRRASHEKHAR	10
15	PANJWANI KHUSHI MULCHAND	11
16	RAUT PRACHI RAMAJI	9
17	SAHU SAPNA HARISHANKAR	AA
18	SELOKAR SHIVAM TAMESHWAR	12
19	SONTAKKE SAKSHI ANIL	11
20	VERMA JAYA SUKHCEN	12
21	WAHANE SAKSHIT JANARDHAN	10
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	12
2	AGRAWAL PRAJWAL GOPAL	12
3	ATEY ASHUTOSH RANJIT	11
4	BANSULE ADITYA MANOHAR	9
5	BIDKAR SAKSHI HEMANT	11
6	CHANDURKAR SIDDHARTH MANOJ	9
7	DUDHE MAYURI SUDHIR	10
8	GEDAM PRAJAKTA GAJANAN	11
9	GOUR PRACHI RAJU	AA
10	HADKE SEJAL SUDHIR	7
11	INGLE MINAL DHARAMDIP	12
12	JAKKANWAR SEJAL KRISHNAKANT	13
13	KAMDE ANJALI RAJU	AA
14	KASAR HEMANSHU GOLISH	10

15	KOVE SHRUTI DINESH	11
16	MESHARAM HEMANT SUNIL	AA
17	MOGRE SAMIKSHA SHANKAR	14
18	NANDANKAR SIMRAN GANESH	11
19	NAYAK NISHA JAGESHWARLAL	7
20	NIMJE APEKSHA DHARMENDRA	12
21	NAIK VANSHIKA SIDDHARTH	AA
22	NAVGHARE SAMPADA RAJENDRA	14
23	PITRODA CHHABIL NAROTTAM	12
24	PRADHAN RASHMITA RATNAKAR	AA
25	RAHELE PANKAJ ARVIND	AA
26	RAJPUT VIKAS ANANDKISHOR	9
27	RAUT AISHWARYA KRISHNA	11
28	SELOKAR GIRISH GOPICHAND	10
29	SINGH NIDHI RAKESH	12
30	UGEMUGE DIPALI ARVINDRAO	11
31	TIWARI URJA RAVIPRAKASH	9

  
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**Bachelor of Science (B.Sc.) Semester-V Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-II)**  
**Unit Test -I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:16-09-2021**

**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: 2021 - 2022

**Unit Test - II**

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

Date: 30/10/2021

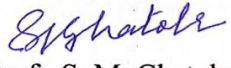
Batch: M3 (PEM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	AMBADE PRERNA AMIT	15
2	BAGHEL VIVEK SURENDRABABU	10
3	BOPCHE BHARTI ASHOK	11
4	CHAVAN SHANTANU PREMDAS	10
5	GUPTA LOKESH DHARMENDRA	9
6	KAMBLE VIPLAV VIRENDRA	10
7	KHAPEKAR ANUJ MANGESH	11
8	KIRTIWAR PRIYANKA RAJESH	AA
9	MANDHARE SURAJ RAJESH	AA
10	MASRAM SANKET SHATRUGHANRAO	11
11	MENDHULKAR MANSHREE PURUSHOTTAM	14
12	MESHRAM ISHA KAWDUJI	11
13	MORE GANESH ANANDRAO	10
14	NIMKAR JANHAVVI CHANRRASHEKHAR	14
15	PANJWANI KHUSHI MULCHAND	12
16	RAUT PRACHI RAMAJI	AA
17	SAHU SAPNA HARISHANKAR	AA
18	SELOKAR SHIVAM TAMESHWAR	12
19	SONTAKKE SAKSHI ANIL	13
20	VERMA JAYA SUKHCEN	AA
21	WAHANE SAKSHIT JANARDHAN	10
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	10
2	AGRAWAL PRAJWAL GOPAL	11
3	ATEY ASHUTOSH RANJIT	10
4	BANSULE ADITYA MANOHAR	9
5	BIDKAR SAKSHI HEMANT	13
6	CHANDURKAR SIDDHARTH MANOJ	AA
7	DUDHE MAYURI SUDHIR	10
8	GEDAM PRAJAKTA GAJANAN	11
9	GOUR PRACHI RAJU	10
10	HADKE SEJAL SUDHIR	AA
11	INGLE MINAL DHARAMDIP	AA
12	JAKKANWAR SEJAL KRISHNAKANT	13
13	KAMDE ANJALI RAJU	AA
14	KASAR HEMANSHU GOLISH	9

15	KOVE SHRUTI DINESH	14
16	MESHARAM HEMANT SUNIL	10
17	MOGRE SAMIKSHA SHANKAR	14
18	NANDANKAR SIMRAN GANESH	11
19	NAYAK NISHA JAGESHWARLAL	9
20	NIMJE APEKSHA DHARMENDRA	12
21	NAIK VANSHIKA SIDDHARTH	10
22	NAVGHARE SAMPADA RAJENDRA	12
23	PITRODA CHHABIL NAROTTAM	12
24	PRADHAN RASHMITA RATNAKAR	10
25	RAHELE PANKAJ ARVIND	4
26	RAJPUT VIKAS ANANDKISHOR	8
27	RAUT AISHWARYA KRISHNA	AA
28	SELOKAR GIRISH GOPICHAND	10
29	SINGH NIDHI RAKESH	14
30	UGEMUGE DIPALI ARVINDRAO	10
31	TIWARI URJA RAVIPRAKASH	AA

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

**Bachelor of Science (B.Sc.) Semester-V Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-II)**  
**Unit Test -II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:30-10-2021**

**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: 2021 - 2022

**Unit Test - I**

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

Date: 07/02/2022


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	10
2	BAGHEL VIVEK SURENDRABABU	8
3	BOPCHE BHARTI ASHOK	5
4	CHAVAN SHANTANU PREMDAS	10
5	GUPTA LOKESH DHARMENDRA	AA
6	KAMBLE VIPLAV VIRENDRA	11
7	KHAPEKAR ANUJ MANGESH	12
8	KIRTIWAR PRIYANKA RAJESH	AA
9	MANDHARE SURAJ RAJESH	AA
10	MASRAM SANKET SHATRUGHANRAO	12
11	MENDHULKAR MANSHREE PURUSHOTTAM	12
12	MESHRAM ISHA KAWDUJI	15
13	MORE GANESH ANANDRAO	AA
14	NIMKAR JANHAVVI CHANRRASHEKHAR	16
15	PANJWANI KHUSHI MULCHAND	12
16	RAUT PRACHI RAMAJI	8
17	SAHU SAPNA HARISHANKAR	9
18	SELOKAR SHIVAM TAMESHWAR	11
19	SONTAKKE SAKSHI ANIL	13
20	VERMA JAYA SUKHCEN	17
21	WAHANE SAKSHIT JANARDHAN	11
22	WANKHEDE AYUSH SANJAY	10

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	11
3	ATEY ASHUTOSH RANJIT	12
4	BANSULE ADITYA MANOHAR	10
5	BIDKAR SAKSHI HEMANT	12
6	CHANDURKAR SIDDHARTH MANOJ	AA
7	DUDHE MAYURI SUDHIR	AA
8	GEDAM PRAJAKTA GAJANAN	11
9	GOUR PRACHI RAJU	AA
10	HADKE SEJAL SUDHIR	AA
11	INGLE MINAL DHARAMDIP	12
12	JAKKANWAR SEJAL KRISHNAKANT	13
13	KAMDE ANJALI RAJU	11
14	KASAR HEMANSHU GOLISH	9

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

  
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**Bachelor of Science (B.Sc.) Semester-VI Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-I Topic: Programming in 'C' Unit No. 1)**  
**Unit Test -I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:07-02-2022**

**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: 2021 - 2022

**Unit Test - II**

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

Date: 24/03/2022


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	10
2	BAGHEL VIVEK SURENDRABABU	6
3	BOPCHE BHARTI ASHOK	7
4	CHAVAN SHANTANU PREMDAS	11
5	GUPTA LOKESH DHARMENDRA	AA
6	KAMBLE VIPLAV VIRENDRA	12
7	KHAPEKAR ANUJ MANGESH	10
8	KIRTIWAR PRIYANKA RAJESH	9
9	MANDHARE SURAJ RAJESH	7
10	MASRAM SANKET SHATRUGHANRAO	11
11	MENDHULKAR MANSHREE PURUSHOTTAM	14
12	MESHRAM ISHA KAWDUJI	11
13	MORE GANESH ANANDRAO	AA
14	NIMKAR JANHAVVI CHANRRASHEKHAR	14
15	PANJWANI KHUSHI MULCHAND	12
16	RAUT PRACHI RAMAJI	6
17	SAHU SAPNA HARISHANKAR	7
18	SELOKAR SHIVAM TAMESHWAR	12
19	SONTAKKE SAKSHI ANIL	13
20	VERMA JAYA SUKHCEN	15
21	WAHANE SAKSHIT JANARDHAN	11
22	WANKHEDE AYUSH SANJAY	10

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	10
4	BANSULE ADITYA MANOHAR	AA
5	BIDKAR SAKSHI HEMANT	13
6	CHANDURKAR SIDDHARTH MANOJ	6
7	DUDHE MAYURI SUDHIR	8
8	GEDAM PRAJAKTA GAJANAN	11
9	GOUR PRACHI RAJU	AA
10	HADKE SEJAL SUDHIR	AA
11	INGLE MINAL DHARAMDIP	12
12	JAKKANWAR SEJAL KRISHNAKANT	13
13	KAMDE ANJALI RAJU	6
14	KASAR HEMANSHU GOLISH	7

15	KOVE SHRUTI DINESH	11
16	MESHARAM HEMANT SUNIL	AA
17	MOGRE SAMIKSHA SHANKAR	14
18	NANDANKAR SIMRAN GANESH	11
19	NAYAK NISHA JAGESHWARLAL	8
20	NIMJE APEKSHA DHARMENDRA	12
21	NAIK VANSHIKA SIDDHARTH	11
22	NAVGHARE SAMPADA RAJENDRA	14
23	PITRODA CHHABIL NAROTTAM	12
24	PRADHAN RASHMITA RATNAKAR	11
25	RAHELE PANKAJ ARVIND	AA
26	RAJPUT VIKAS ANANDKISHOR	5
27	RAUT AISHWARYA KRISHNA	6
28	SELOKAR GIRISH GOPICHAND	9
29	SINGH NIDHI RAKESH	14
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**Bachelor of Science (B.Sc.) Semester-VI Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-I Topic: Programming in 'C' Unit No. 2 & 3)**  
**Unit Test-II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:24-03-2022**

**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: 2021 - 2022

**Unit Test - I**

Name of the Teacher: Mrs. Sonali Sagdeo

Date: 15/02/2022

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	11
2	BAGHEL VIVEK SURENDRABABU	9
3	BOPCHE BHARTI ASHOK	10
4	CHAVAN SHANTANU PREMDAS	10
5	GUPTA LOKESH DHARMENDRA	7
6	KAMBLE VIPLAV VIRENDRA	11
7	KHAPEKAR ANUJ MANGESH	13
8	KIRTIWAR PRIYANKA RAJESH	AA
9	MANDHARE SURAJ RAJESH	6
10	MASRAM SANKET SHATRUGHANRAO	14
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16	RAUT PRACHI RAMAJI	AA
17	SAHU SAPNA HARISHANKAR	AA
18	SELOKAR SHIVAM TAMESHWAR	11
19	SONTAKKE SAKSHI ANIL	10
20	VERMA JAYA SUKHCEN	13
21	WAHANE SAKSHIT JANARDHAN	14
22	WANKHEDE AYUSH SANJAY	11

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	11
2	AGRAWAL PRAJWAL GOPAL	11
3	ATEY ASHUTOSH RANJIT	13
4	BANSULE ADITYA MANOHAR	9
5	BIDKAR SAKSHI HEMANT	12
6	CHANDURKAR SIDDHARTH MANOJ	AA
7	DUDHE MAYURI SUDHIR	AA
8	GEDAM PRAJAKTA GAJANAN	14
9	GOUR PRACHI RAJU	10
10	HADKE SEJAL SUDHIR	9
11	INGLE MINAL DHARAMDIP	11
12	JAKKANWAR SEJAL KRISHNAKANT	10

13	KAMDE ANJALI RAJU	10
14	KASAR HEMANSHU GOLISH	8
15	KOVE SHRUTI DINESH	10
16	MESHARAM HEMANT SUNIL	8
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18	NANDANKAR SIMRAN GANESH	14
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20	NIMJE APEKSHA DHARMENDRA	11
21	NAIK VANSHIKA SIDDHARTH	10
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25	RAHELE PANKAJ ARVIND	9
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27	RAUT AISHWARYA KRISHNA	AA
28	SELOKAR GIRISH GOPICHAND	11
29	SINGH NIDHI RAKESH	12
30	UGEMUGE DIPALI ARVINDRAO	13
31	TIWARI URJA RAVIPRAKASH	10

*S. M. Ghatole*  
Prof . S. M. Ghatole  
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**Bachelor of Science (B.Sc.) Semester-VI Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-II)**  
**Unit Test -I**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:15-02-2022**

**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: 2021 - 2022

**Unit Test - II**

Name of the Teacher: Mrs. Sonali Sagdeo

Date: 25/03/2022

Batch: M3 (PEM)

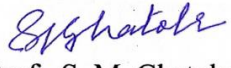
<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
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Batch: M10 (ECsM)

<b>Sr. No.</b>	<b>Full Name of Student</b>	<b>Unit Test Marks (Out of 20)</b>
1	ABHAYANKAR TANVI PRAFULLA	14
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3	ATEY ASHUTOSH RANJIT	10
4	BANSULE ADITYA MANOHAR	AA
5	BIDKAR SAKSHI HEMANT	13
6	CHANDURKAR SIDDHARTH MANOJ	6
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15	KOVE SHRUTI DINESH	11
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**Bachelor of Science (B.Sc.) Semester-VI Examination**  
**Session 2021 - 2022**  
**Electronics (Paper-II)**  
**Unit Test -II**

**Time: One Hour]**

**[Maximum Marks: 20**

**Date:25-03-2022**

**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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