

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M.Sc. Semester-I (Computer Science) Session 2019-2020  
Unit Test-I**

**Name of Teacher: S.P. Jagre**

**Date: 25/09/2019**

**Subject: Discrete Mathematical Structure (Paper-I) Maximum Marks: 20**

<b>Sr. No.</b>	<b>Name of Students</b>	<b>Obtained Marks</b>
1.	Aishwarya Manohar Kadu	12
2.	Aishwarya N.Jadhav	16
3.	Akash Vijay Rajurkar	13
4.	Alpa Babu Shinde	17
5.	Ambika Dhanraj Nagpure	12
6.	Archana C.Waghmare	13
7.	Ayshu Ashutosh Pandey	12
8.	Bhavana Suresh Kamble	18
9.	Damini Banduji Shende	17
10.	Darshana Sanjay Maske	17
11.	Kalyani P. Dhumankhede	Absent
12.	Karuna Ashok Kapgate	14
13.	Kasturi Shyam Nisal	13
14.	Manisha Mahendra Mari	16
15.	Naina Babban Yadav	13
16.	Nikita Nitendra Wakodkar	Absent
17.	Payal Kishor Shete	13
18.	Piyu Vinayak Nagpure	16
19.	Pooja Chopdeo Nandanwar	13
20.	Pratiksha Rajendra Fulkar	14
21.	Priya Laxmanrao Latore	16
22.	Priya Narayan Fule	Absent
23.	Renu Asharfi Sah	12

24.	Rutuja Diwakar Takit	15
25.	Roshani Khiran Mandlekar	14
26.	Roshani P. Gajbhiye	13
27.	Ruchira Rajesh Bhanarkar	16
28.	Sandhya Suroshe	13
29.	Shivani Yashwant Naitam	17
30.	Shweta A. Jaiswal	12
31.	Suraj Sevak Gawande	14
32.	Swathi Rathnam Premar	16
33.	Urvashi D. Banothe	Absent

Signature of the Teacher

Head

Department of Computer Science

Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur



**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-2020**

**Master of Science (M.Sc.) Semester-I (Computer Science)**

**Discrete Mathematical Structure (Paper-I)**

**Unit Test -I**

**Time: 1 hour]**

**[Maximum Marks:20**

**Q1. Answer the Following (Any 2)**

- |  |   |
|--|---|
| A. Explain theory of interface for statement calculus. | 8 |
| B. Write the Recurrence Relations?                     | 8 |
| C. Explain mathematical induction in detail?           | 8 |
| D. Explain the the pigeonhole Principle ?              | 8 |

**Q2. Answer the Following (Any 1)**

- |   |   |
|---|---|
| A. Explain all Normal Forms?              | 4 |
| B. Write the Equivalence Relations?       | 4 |
| C. Explain Logical proposition in detail? | 4 |



Signature of the Teacher



Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Amity's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M.Sc. Semester-I (Computer Science) Session 2019-2020  
Discrete Mathematical Structure (Paper I)  
Unit Test- II**

Name of Teacher: S.P. Jagre

Date: 04/12/2019

Subject: Discrete Mathematical Structure (Paper-I)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Aishwarya Manohar Kadu	18
2.	Aishwarya N.Jadhav	13
3.	Akash Vijay Rajurkar	16
4.	Alpa Babu Shinde	13
5.	Ambika Dhanraj Nagpure	17
6.	Archana C. Waghmare	14
7.	Ayshu Ashutosh Pandey	16
8.	Bhavana Suresh Kamble	Absent
9.	Damini Banduji Shende	12
10.	Darshana Sanjay Maske	Absent
11.	Kalyani P. Dhumankhede	14
12.	Karuna Ashok Kapgate	13
13.	Kasturi Shyam Nisal	16
14.	Manisha Mahendra Mari	13
15.	Naina Babban Yadav	Absent

16.	Nikita Nitendra Wakodkar	18
17.	Payal Kishor Shete	12
18.	Piyu Vinayak Nagpure	16
19.	Pooja Chopdeo Nandanwar	Absent
20.	Pratiksha Rajendra Fulkar	17
21.	Priya Laxmanrao Latore	12
22.	Priya Narayan Fule	13
23.	Renu Asharfi Sah	12
24.	Rutuja Diwakar Takit	18
25.	Roshani Khiran Mandlekar	17
26.	Roshani P. Gajbhiye	17
27.	Ruchira Rajesh Bhanarkar	Absent
28.	Sandhya Suroshe	14
29.	Shivani Yashwant Naitam	13
30.	Shweta A. Jaiswal	16
31.	Suraj Sevak Gawande	13
32.	Swathi Rathnam Premar	Absent
33.	Urvashi D. Banothe	13

**Signature of the Teacher**

**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-2020  
Master of Science (M.Sc.) Semester-I (Computer Science)  
Discrete Mathematical Structure (Paper-I)  
Unit Test -II**

**Time: 1 hour]**

**[Maximum Marks:20**

**Q1. Answer the Following (Any 2)**

- |   |   |
|---|---|
| A. Explain Euler Paths and Circuits?        | 8 |
| B. Explain Products of quotation of groups? | 8 |
| C. Write the Permutation Functions?         | 8 |
| D. Explain the concept Semigroup?           | 8 |

**Q2. Answer the Following (Any 1)**

- |  |   |
|--|---|
| A. Explain partially ordered sets in detail? | 4 |
| B. Explain Undirected Tree?                  | 4 |
| C. Explain State machines in detail?         | 4 |



**Signature of the Teacher**



**Head**

**Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am't's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M. Sc. Semester – I (Computer Science) Session 2019-20  
Unit Test - I**

**Name of Teacher: Mr. M. T. Wanjari**

**Date: 30/08/2019**

**Subject: Programming in Java (Paper-II)**

**Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Aishwarya Manohar Kadu	09
2.	Aishwarya N. Jadhav	08
3.	Akash Vijay Rajurkar	AB
4.	Alpa Babu Shinde	10
5.	Ambika Dhanraj Nagpure	12
6.	Archana C. Waghmare	14

7.	Ayshu Ashutosh Pandey	16
8.	Bhavana Suresh Kamble	12
9.	Damini Banduji Shende	13
10.	Darshana Sanjay Maske	16
11.	Kalyani P. Dhumankhede	10
12.	Karuna Ashok Kapgate	13
13.	Kasturi Shyam Nisal	16
14.	Manisha Mahendra Mari	14
15.	Naina Babban Yadav	10
16.	Nikita Nitendra Wakodkar	12
17.	Payal Kishor Shete	AB
18.	Piyu Vinayak Nagpure	10
19.	Pooja Chopdeo Nandanwar	09
20.	Pratiksha Rajendra Fulkar	10
21.	Priya Laxmanrao Latore	09
22.	Priya Narayan Fule	AB
23.	Renu Asharfi Sah	10
24.	Rutuja Diwakar Takit	12
25.	Roshani Khiran Mandlekar	09
26.	Roshani P. Gajbhiye	08
27.	Ruchira Rajesh Bhanarkar	12
28.	Sandhya Suroshe	15
29.	Shivani Yashwant Naitam	12
30.	Shweta A. Jaiswal	10
31.	Suraj Sevak Gawande	09
32.	Swathi Rathnam Premar	10
33.	Urvashi D. Banothe	09



**Signature of the Teacher**



**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-20  
Master of Science (M. Sc.) Semester – I (Computer Science)  
Programming in Java (Paper-II)  
Unit Test – I**

**Time: 1 Hour]**

**[Maximum Marks: 20**

**Q. 1 (Solve any two question)**

- A. How many types of inheritance does java support without interfaces?  
Explain with sample program. 8
- B. Write a program to show the use of various methods which constitutes  
life cycle of an applet. 8
- C. What is layout manager? Describe the various layout managers  
supported by Swing. 8
- D. List the model proposed for event handling in java. 8

**Q. 2 (Solve any one question)**

- A. What is constructor in Java? Explain overloaded constructor. 4
- B. What is remote applet? Write a program to pass parameters to an applet. 4
- C. What is layout manager? 4



**Signature of the Teacher**



**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Amt's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M. Sc. Semester – I (Computer Science) Session 2019-20  
Unit Test - II**

**Name of Teacher: Mr. M. T. Wanjari**

**Date: 18/09/2019**

**Subject: Programming in Java (Paper-II)**

**Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Aishwarya Manohar Kadu	09
2.	Aishwarya N. Jadhav	10
3.	Akash Vijay Rajurkar	10
4.	Alpa Babu Shinde	11

5.	Ambika Dhanraj Nagpure	10
6.	Archana C.Waghmare	16
7.	Ayshu Ashutosh Pandey	15
8.	Bhavana Suresh Kamble	13
9.	Damini Banduji Shende	12
10.	Darshana Sanjay Maske	17
11.	Kalyani P. Dhumankhede	09
12.	Karuna Ashok Kapgate	10
13.	Kasturi Shyam Nisal	15
14.	Manisha Mahendra Mari	15
15.	Naina Babban Yadav	11
16.	Nikita Nitendra Wakodkar	10
17.	Payal Kishor Shete	09
18.	Piyu Vinayak Nagpure	12
19.	Pooja Chopdeo Nandanwar	10
20.	Pratiksha Rajendra Fulkar	14
21.	Priya Laxmanrao Latore	13
22.	Priya Narayan Fule	12
23.	Renu Asharfi Sah	10
24.	Rutuja Diwakar Takit	13
25.	Roshani Khiran Mandlekar	AB
26.	Roshani P. Gajbhiye	10
27.	Ruchira Rajesh Bhanarkar	09
28.	Sandhya Suroshe	12
29.	Shivani Yashwant Naitam	10
30.	Shweta A. Jaiswal	12
31.	Suraj Sevak Gawande	09
32.	Swathi Rathnam Premar	AB
33.	Urvashi D. Banothe	10



**Signature of the Teacher**



**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur



**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-20  
Master of Science (M. Sc.) Semester – I (Computer Science)  
Programming in Java (Paper-II)  
Unit Test – II**

**Time: 1 Hour]**

**[Maximum Marks: 20**

**Q. 1 (Solve any two question)**

- A. Discuss the basic architecture of the JDBC. Also specify its Application. 8
- B. Demonstrate Distributed application using RMI. 8
- C. Explain javax.servlet.http package in detail. 8
- D. Explain session object. How can we use the session variable? Give example. 8

**Q. 2 (Solve any one question)**

- A. Write a program to demonstrate a UDP server. 4
- B. Differentiate between doGet() and doPost() methods. 4
- C. What is the difference between Java Bean and EJB. 4



**Signature of the Teacher**



**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M. Sc. Semester – I (Computer Science) Session 2019-20  
Unit Test - I**

**Name of the Teacher: Mrs. Swati S Khandalkar**

**Date:19/08/2019**

**Subject: Digital Electronics and Microprocessor (Paper-III)**

**Maximum Marks :20**

Sr. No.	Name of Students	Obtained Marks
1.	Aishwarya Manoharv Kadu	17
2.	Aishwarya N. Jadhav	11
3.	Akash Vijay Rajurkar	10
4.	Alpa Babu Shinde	12
5.	Ambika Dhanraj Nagpure	9

6.	Archana C. Waghmare	12
7.	Ayshu Ashutosh Pandey	Absent
8.	Bhavana Suresh Kamble	7
9.	Damini Banduji Shende	19
10.	Darshana Sanjay Maske	10
11.	Kalyani P. Dhumankhede	18
12.	Karuna Ashok Kapgate	11
13.	Kasturi Shyam Nisal	Absent
14.	Manisha Mahendra Mari	11
15.	Naina BabbanYadav	12
16.	Nikita Nitendra Wakodkar	9
17.	Payal Kishor Shete	Absent
18.	Piyu Vinayak Nagpure	13
19.	Pooja Chopdeo Nandanwar	19
20.	Pratiksha Rajendra Fulkar	13
21.	Priya Laxmanrao Latore	13
22.	Priya Narayan Fule	13
23.	Renu Asharfi Sah	13
24.	Rutuja Diwakar Takit	Absent
25.	Roshani Khiran Mandlekar	15
26.	Roshani P. Gajbhiye	11
27.	Ruchira Rajesh Bhanarkar	11
28.	Sandhya Suroshe	18
29.	Shivani Yashwant Naitam	12
30.	Shweta A. Jaiswal	16
31.	Suraj Sevak Gawande	12
32.	Swathi Rathnam Premar	8
33.	Urvashi D. Banothe	Absent



Signature of the Teacher



Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-2020  
Master of Science (M.Sc.) Semester-I (Computer Science)  
Digital Electronics and Microprocessor (Paper-III)  
Unit Test - I

Time :1 Hour ]

[Maximum Marks:20

**Question 1. Solve any two**

- A. Explain binary subtractions schemes using 1's and 2's complements. State its advantages and disadvantages. 8
- B. What is K-map? Using K-map draw and simplify the following:  
 $F(A, B, C, D): \sum m(1,3,5,7,9,14,15)$  8
- C. What is Gray Code? Explain the method of converting Gray Code to Binary, and binary to Gray Code with suitable examples. 8
- D. Explain with examples the don't care conditions in four variable K-map. 8

**Question 2. Solve any one**

- A. How negative number represented in Binary? Explain with suitable examples. 4
- B. State and prove Demorgan's laws. 4
- C. What is an encoder? Draw the logic circuit of Decimal to BCD encoder and explain its working. 4



Signature of the Teacher



Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's**  
**Science College, Congress Nagar, Nagpur**  
**Department of Computer Science**  
**M. Sc. Semester – I (Computer Science) Session 2019-20**  
**Unit Test - II**

**Name of the Teacher: Mrs. Swati S Khandalkar**

**Date: 26/09/2019**

**Subject: Digital Electronics and Microprocessor (Paper-III)**

**Maximum Marks :20**

<b>Sr. No.</b>	<b>Name of Students</b>	<b>Obtained Marks</b>
1.	Aishwarya Manoharv Kadu	20
2.	Aishwarya N. Jadhav	Absent
3.	Akash Vijay Rajurkar	8
4.	Alpa Babu Shinde	18
5.	Ambika Dhanraj Nagpure	20
6.	Archana C. Waghmare	12
7.	Ayshu Ashutosh Pandey	8
8.	Bhavana Suresh Kamble	15
9.	Damini Banduji Shende	Absent
10.	Darshana Sanjay Maske	16
11.	Kalyani P. Dhumankhede	Absent
12.	Karuna Ashok Kapgate	10
13.	Kasturi Shyam Nisal	13
14.	Manisha Mahendra Mari	13
15.	Naina BabbanYadav	14
16.	Nikita Nitendra Wakodkar	14
17.	Payal Kishor Shete	17
18.	Piyu Vinayak Nagpure	18
19.	Pooja Chopdeo Nandanwar	14
20.	Pratiksha Rajendra Fulkar	12
21.	Priya Laxmanrao Latare	16
22.	Priya Narayan Fule	13
23.	Renu Asharfi Sah	8
24.	Rutuja Diwakar Takit	17
25.	Roshani Khiran Mandlekar	15

26.	Roshani P. Gajbhiye	15
27.	Ruchira Rajesh Bhanarkar	14
28.	Sandhya Suroshe	13
29.	Shivani Yashwant Naitam	18
30.	Shweta A. Jaiswal	20
31.	Suraj Sevak Gawande	19
32.	Swathi Rathnam Premar	11
33.	Urvashi D. Banothe	18



**Signature of the Teacher**



**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-2020  
Master of Science (M.Sc.) Semester-I (Computer Science)  
Digital Electronics and Microprocessor (Paper-III)  
Unit Test - II**

**Time :1 Hour]**

**[Maximum Marks:20**

**Question 1. Solve any two**

- Using D-Flip flops and waveforms explain the working of a 4-bit SISO shift register. 8
- Draw the functional block diagram of 8086  $\mu$ p and explain the function of each unit in brief. 8
- Give the truth table of S-R and D-flipflops. Convert the given S-R flipflop to a D-flip flop. 8
- What is flag register? List the various flags used in 8086  $\mu$ p with indication of each flag bit. Explain any two of them with suitable example. 8

**Question 2. Solve any one**

- What is race around condition? How it can be avoided? 4
- What are Assembler Directives? Enlist the different assembler directives. 4
- Explain with examples following addressing modes: 4

- i. Indexed Addressing
- ii. Based Indexed Addressing



**Signature of the Teacher**



**Head**  
**Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M.Sc. Semester-I (Computer Science) Session 2019-20  
Unit Test -I**

**Name of Teacher: A. M. Taori**

**Date: 04/10/2019**

**Subject: Advanced DBMS and Administration Paper-IV**

**Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Aishwarya Manohar Kadu	11
2.	Aishwarya N.Jadhav	Absent
3.	Akash Vijay Rajurkar	14
4.	Alpa Babu Shinde	13
5.	Ambika Dhanraj Nagpure	17
6.	ArchanaC.Waghmare	Absent
7.	Ayshu Ashutosh Pandey	16
8.	Bhavana Suresh Kamble	13
9.	Damini Banduji Shende	13
10.	Darshana Sanjay Maske	09
11.	Kalyani P. Dhumankhede	11
12.	Karuna Ashok Kapgate	16
13.	Kasturi Shyam Nisal	14
14.	Manisha Mahendra Mari	16
15.	Naina Babban Yadav	17
16.	Nikita Nitendra Wakodkar	Absent

17.	Payal Kishor Shete	16
18.	Piyu Vinayak Nagpure	13
19.	Pooja Chopdeo Nandanwar	13
20.	Pratiksha Rajendra Fulkar	09
21.	Priya Laxmanrao Latore	11
22.	Priya Narayan Fule	16
23.	Renu Asharfi Sah	14
24.	Rutuja Diwakar Takit	Absent
25.	Roshani Khiran Mandlekar	14
26.	Roshani P. Gajbhiye	13
27.	Ruchira Rajesh Bhanarkar	17
28.	Sandhya Suroshe	Absent
29.	Shivani Yashwant Naitam	16
30.	Shweta A. Jaiswal	13
31.	Suraj Sevak Gawande	13
32.	Swathi Rathnam Premar	13
33.	Urvashi D. Banothe	09



Signature of the Teacher



Head

Department of the Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-2020  
Master of science (M.Sc.) Semester-I (Computer Science)  
Advanced DBMS and Administration (Paper-IV)  
UNIT TEST -I**

[Time: 1 Hour]

[Maximum Marks: 20]

**Q1. Answer the Following (Any 2)**

- |   |   |
|---|---|
| A. Explain selection operation and projection operation with suitable example.      | 8 |
| B. Explain the following methods of joining tables (i) Nested loop (ii) Merge join. | 8 |
| C. Discuss concurrency control and time stamp ordering.                             | 8 |
| D. What is serializability ? Explain conflict serializability.                      | 8 |

**Q2. Answer the Following (Any 1)**

- A. Explain lossless join decomposition with one example (BCNF). 4  
B. List and explain types of failure obtained in DBMS. 4  
C. What is wait-die scheme ? Explain 4



Signature of the Teacher



Head

Department of the Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Amravati's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M.Sc. Semester-I (Computer Science) Session 2019-20  
Unit Test -II**

Name of Teacher: A.M.Taori

Date: 10/12/2019

Subject: Advanced DBMS and Administration Paper-IV

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Aishwarya Manohar Kadu	13
2.	Aishwarya N.Jadhav	09
3.	Akash Vijay Rajurkar	11
4.	Alpa Babu Shinde	16
5.	Ambika Dhanraj Nagpure	14
6.	Archana C. Waghmare	16
7.	Ayshu Ashutosh Pandey	18
8.	Bhavana Suresh Kamble	15
9.	Damini Banduji Shende	11
10.	Darshana Sanjay Maske	Absent
11.	Kalyani P. Dhumankhede	14
12.	Karuna Ashok Kapgate	13
13.	Kasturi Shyam Nisal	17
14.	Manisha Mahendra Mari	Absent
15.	Naina Babban Yadav	16
16.	Nikita Nitendra Wakodkar	13



17.	Payal Kishor Shete	13
18.	Piyu Vinayak Nagpure	13
19.	Pooja Chopdeo Nandanwar	09
20.	Pratiksha Rajendra Fulkar	11
21.	Priya Laxmanrao Latore	16
22.	Priya Narayan Fule	14
23.	Renu Asharfi Sah	16
24.	Rutuja Diwakar Takit	17
25.	Roshani Khiran Mandlekar	Absent
26.	Roshani P. Gajbhiye	16
27.	Ruchira Rajesh Bhanarkar	13
28.	Sandhya Suroshe	13
29.	Shivani Yashwant Naitam	09
30.	Shweta A. Jaiswal	11
31.	Suraj Sevak Gawande	16
32.	Swathi Rathnam Premar	14
33.	Urvashi D. Banothe	17



Signature of the Teacher



Head

Department of the Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-2020  
Master of science (M.Sc.) Semester-I (Computer Science)  
Advanced DBMS and Administration (Paper-IV)  
UNIT TEST -II**

[Time: 1 Hour]

[Maximum Marks: 20]

**Q1. Answer the Following (Any 2)**

- A. What are the components of SGA ? Explain in detail.  
B. Explain the system level privileges.

8  
8

- C. What are the contents of trace file and alert log file. 8  
D. What is tuning ? Explain RBS tuning. 8

**Q2. Answer the Following (Any 1)**

- A. Explain the tablespace and data files. 4  
B. Explain export utility logical backup. 4  
C. Explain the process of managing rollback segment. 4



Signature of the Teacher



Head

Department of the Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Amravati's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M.Sc. Semester-III (Computer Science) Session 2019-2020  
Unit Test - I**

Name of Teacher: A. J. Thakur

Date:20/09/2019

Subject: Data Communication & Network (Paper I)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Amit Girish Paliwal	12
2.	Ankita Chandrashekar Bandhekar	16
3.	Faraz Mohammad Iqbal Sayyed	Absent
4.	Gaurav Prabhakar Salwatkar	12
5.	Indrayani Parshuramkar	17
6.	Juhi Vijay Wadnerkar	12
7.	Ketaki Kumeriya	16
8.	Khyati Ghanshyam Patel	17
9.	Komal Gopal Thawkar	Absent
10.	Leena Praful Chauhan	16
11.	Minakshi Subhash Hatwar	16
12.	Namrata Vasant Rahangdale	13
13.	Nikita S. Katole	13
14.	Nilesh Bhanu Nayak	17
15.	Nilima Harichndra Balbudhe	12

16.	Pallavi Kashinath Lonkar	16
17.	Prachi Manoj Singh	17
18.	Prajakta Sanjay Puranik	Absent
19.	Prajwal Thakare	12
20.	Pratiksha Khemraj Zure	11
21.	Priyanka Babulal Jangid	16
22.	Rashmi Rewaram Nanhe	13
23.	Roshan Sanjay Bhalshankar	17
24.	Rupal Dewaji Gumgaonkar	12
25.	Sagar Mahipal Motghare	13
26.	Sameer Anil Deshmukh	12
27.	Sampada Avinash Salphale	18
28.	Sana Parveen Sheikh	17
29.	Shivani Pramod Pawade	17
30.	Shraddha Subodh Wasnik	Absent
31.	Shubham Devidas Damedhar	14
32.	Shubham Nandkishor Rakas	13
33.	Shweta Ravindra Dhanorkar	17
34.	Surabhi Sanjay Wasnik	12
35.	Swati Kaushlendra Mishra	13
36.	Vaibhav Sanjay Hirekhan	12
37.	Vaishnavi Vishnu Makde	18
38.	Yogita Ajit Kaushal	17

**Signature of the Teacher**

**Head**

**Department of Computer Science**

Professor & Head  
Department of Computer Science  
S. S. E. S. Am's Science College,  
Congress Nagar, Nagpur



**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
Session 2019-2020  
Master of Science (M.Sc.) Semester-III (Computer Science)  
Data Communication & Network (Paper -I)  
Unit Test - I**

**Time: 1 hour]**

**[Maximum Marks:20**

**Q1. Answer the Following (Any 2)**

- A. What are transmission media? Discuss its type. 8  
B. Discuss design issue and remote procedure in session layer. 8  
C. What is ISDN? Explain the architecture of ISDN. 8  
D. Discuss the following of application layer: 8  
a) File transfer b) Virtual terminal c) Access and management

**Q2. Answer the Following (Any 1)**

- A. Short note :- a) Analog b) Digital. 4  
B. Explain physical layer with respect to data communication in detail. 4  
C. Explain working of transport layer. 4



**Signature of the Teacher**



**Head**

**Department of Computer Science**

Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur



**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M.Sc. Semester-III (Computer Science) Session 2019-2020  
Unit Test - II**

**Name of Teacher: A. J. Thakur**

**Date: 05/12/2019**

**Subject: Data Communication & Network (Paper I)**

**Maximum Marks: 20**

Sr. No.	Name of Students	Marks Obtained
1.	Amit Girish Paliwal	16
2.	Ankita Chandrashekhar Bandhekar	Absent
3.	Faraz Mohammad Iqbal Sayyed	12

4.	Gaurav Prabhakar Salwatkar	11
5.	Indrayani Parshuramkar	16
6.	Juhi Vijay Wadnerkar	13
7.	Ketaki Kumeriya	17
8.	Khyati Ghanshyam Patel	15
9.	Komal Gopal Thawkar	13
10.	Leena Praful Chauhan	12
11.	Minakshi Subhash Hatwar	18
12.	Namrata Vasant Rahangdale	17
13.	Nikita S. Katole	17
14.	Nilesh Bhanu Nayak	Absent
15.	Nilima Harichndra Balbudhe	14
16.	Pallavi Kashinath Lonkar	13
17.	Prachi Manoj Singh	17
18.	Prajakta Sanjay Puranik	Absent
19.	Prajwal Thakare	14
20.	Pratiksha Khemraj Zure	13
21.	Priyanka Babulal Jangid	12
22.	Rashmi Rewaram Nanhe	16
23.	Roshan Sanjay Bhalshankar	Absent
24.	Rupal Dewaji Gumgaonkar	12
25.	Sagar Mahipal Motghare	17
26.	Sameer Anil Deshmukh	12
27.	Sampada Avinash Salphale	16
28.	Sana Parveen Sheikh	17
29.	Shivani Pramod Pawade	Absent
30.	Shraddha Subodh Wasnik	16
31.	Shubham Devidas Damedhar	16
32.	Shubham Nandkishor Rakas	13

33.	Shweta Ravindra Dhanorkar	13
34.	Surabhi Sanjay Wasnik	17
35.	Swati Kaushlendra Mishra	12
36.	Vaibhav Sanjay Hirekhan	16
37.	Vaishnavi Vishnu Makde	17
38.	Yogita Ajit Kaushal	Absent



Signature of the Teacher



Head

Department of Computer Science

Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur



**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
Session 2019-2020  
Master of Science (M.Sc.) Semester-III (Computer Science)  
Data Communication & Network (Paper -I)  
Unit Test - II**

Time: 1 hour]

[Maximum Marks:20

**Q1. Answer the Following (Any 2)**

- A. Explain the classification of security service. 8
- B. Where the encryption devices are located? Explain in details. 8
- C. Discuss the security vulnerabilities and threads. 8
- D. What are TCP and UDP? Explain the TCP connection management. 8

**Q2. Answer the Following (Any 1)**

- A. What is the use hash functions encryption? 4
- B. Why firewall are used? 4
- C. Write a short note on security attack. 4



Signature of the Teacher



Head

Department of Computer Science

Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur



**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M. Sc. Semester – III (Computer Science) Session 2019-20  
Unit Test - I**

**Name of Teacher: Mr. M. T. Wanjari**

**Date: 02/09/2019**

**Subject: Software Engineering (Paper-II)**

**Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Amit Girish Paliwal	09
2.	Ankita Chandrashekhar Bandhekar	10
3.	Faraz Mohammad Iqbal Sayyed	12
4.	Gaurav Prabhakar Salwatkar	AB
5.	Indrayani Parshuramkar	08
6.	Juhi Vijay Wadnerkar	12
7.	Ketaki Kumeriya	09
8.	Khyati Ghanshyam Patel	14
9.	Komal Gopal Thawkar	10
10.	Leena Praful Chauhan	16
11.	Minakshi Subhash Hatwar	15
12.	Namrata Vasant Rahangdale	12
13.	Nikita S. Katole	10
14.	Nilesh Bhanu Nayak	AB
15.	Nilima Harichndra Balbudhe	10
16.	Pallavi Kashinath Lonkar	12
17.	Prachi Manoj Singh	13
18.	Prajakta Sanjay Puranik	14
19.	Prajwal Thakare	08
20.	Pratiksha Khemraj Zure	10
21.	Priyanka Babulal Jangid	12
22.	Rashmi Rewaram Nanhe	14
23.	Roshan Sanjay Bhalshankar	13
24.	Rupal Dewaji Gumgaonkar	09
25.	Sagar Mahipal Motghare	15
26.	Sameer Anil Deshmukh	14
27.	Sampada Avinash Salphale	12
28.	Sana Parveen Sheikh	10
29.	Shivani Pramod Pawade	12
30.	Shraddha Subodh Wasnik	10

31.	Shubham Devidas Damedhar	09
32.	Shubham Nandkishor Rakas	AB
33.	Shweta Ravindra Dhanorkar	08
34.	Surabhi Sanjay Wasnik	09
35.	Swati Kaushlendra Mishra	14
36.	Vaibhav Sanjay Hirekhan	09
37.	Vaishnavi Vishnu Makde	14
38.	Yogita Ajit Kaushal	10



Signature of the Teacher



Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S. S. E. S. Am's Science College,  
Congress Nagar, Nagpur

Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-20

Master of Science (M. Sc.) Semester – III (Computer Science)  
Software Engineering (Paper-II)  
Unit Test – I

Time: 1 Hour]

[Maximum Marks: 20

Q. 1 (Solve any two question)

- A. Explain with example the personal and team process models. 8
- B. Explain in short various phases of requirement engineering process. 8
- C. Explain the capability maturity model Integration (CMMI). 8
- D. List out the different system models and explain the object models. 8

Q. 2 (Solve any one question)

- A. Explain the software requirements document. 4
- B. Explain feasibility study in engineering. 4
- C. What is process assessment? 4



Signature of the Teacher



Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S. S. E. S. Am's Science College,  
Congress Nagar, Nagpur



**Shri Shivaji Education Society Amravati's**  
**Science College, Congress Nagar, Nagpur**  
**Department of Computer Science**  
**M. Sc. Semester – III (Computer Science) Session 2019-20**  
**Unit Test - II**

Name of Teacher: Mr. M. T. Wanjari

Date: 16/10/2019

Subject: Software Engineering (Paper-II)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Amit Girish Paliwal	10
2.	Ankita Chandrashekhar Bandhekar	12
3.	Faraz Mohammad Iqbal Sayyed	14
4.	Gaurav Prabhakar Salwatkar	10
5.	Indrayani Parshuramkar	AB
6.	Juhi Vijay Wadnerkar	10
7.	Ketaki Kumeriya	10
8.	Khyati Ghanshyam Patel	12
9.	Komal Gopal Thawkar	09
10.	Leena Praful Chauhan	17
11.	Minakshi Subhash Hatwar	12
12.	Namrata Vasant Rahangdale	09
13.	Nikita S. Katole	10
14.	Nilesh Bhanu Nayak	08
15.	Nilima Harichndra Balbudhe	AB
16.	Pallavi Kashinath Lonkar	10
17.	Prachi Manoj Singh	10
18.	Prajakta Sanjay Puranik	12
19.	Prajwal Thakare	10
20.	Pratiksha Khemraj Zure	AB
21.	Priyanka Babulal Jangid	10
22.	Rashmi Rewaram Nanhe	12
23.	Roshan Sanjay Bhalshankar	14
24.	Rupal Dewaji Gumgaonkar	10
25.	Sagar Mahipal Motghare	16
26.	Sameer Anil Deshmukh	15
27.	Sampada Avinash Salphale	10
28.	Sana Parveen Sheikh	09
29.	Shivani Pramod Pawade	10
30.	Shraddha Subodh Wasnik	12
31.	Shubham Devidas Damedhar	12
32.	Shubham Nandkishor Rakas	10
33.	Shweta Ravindra Dhanorkar	AB
34.	Surabhi Sanjay Wasnik	08
35.	Swati Kaushlendra Mishra	16

36.	Vaibhav Sanjay Hirekhan	10
37.	Vaishnavi Vishnu Makde	12
38.	Yogita Ajit Kaushal	09



Signature of the Teacher



Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-20

Master of Science (M. Sc.) Semester – III (Computer Science)  
Software Engineering (Paper-II)  
Unit Test – II

Time: 1 Hour]

[Maximum Marks: 20

Q. 1 (Solve any two question)

- |  |   |
|--|---|
| A. Explain the user interface analysis and design.                   | 8 |
| B. Explain the metrics for testing and metrics for maintenance.      | 8 |
| C. Explain the reactive and proactive risk strategies.               | 8 |
| D. What is software quality? Explain the software quality Assurance. | 8 |

Q. 2 (Solve any one question)

- |  |   |
|--|---|
| A. Explain the objects and object classes. | 4 |
| B. Explain the term software measurement.  | 4 |
| C. What is software reliability            | 4 |



Signature of the Teacher



Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur.  
Department of Computer Science

M. Sc. Semester-III (Computer Science) Session 2019-20  
Unit Test - I

**Name of the Teacher: Mrs. Swati S Khandalkar**

**Date:19/08/2019**

**Subject: Neural Network (Paper-III)**

**Maximum Marks :20**

<b>Sr. No.</b>	<b>Name of Students</b>	<b>Obtained Marks</b>
1.	Amit Girish Paliwal	19
2.	Ankita Chandrashekhar Bandhekar	10
3.	Faraz Mohammad Iqbal Sayyed	Absent
4.	Gaurav Prabhakar Salwatkar	13
5.	Indrayani Parshuramkar	14
6.	Juhi Vijay Wadnerkar	15
7.	Ketaki Kumeriya	14
8.	Khyati Ghanshyam Patel	Absent
9.	Komal Gopal Thawkar	19
10.	Leena Praful Chauhan	19
11.	Minakshi Subhash Hatwar	17
12.	Namrata Vasant Rahangdale	16
13.	Nikita S. Katole	17
14.	Nilesh Bhanu Nayak	17
15.	Nilima Harichndra Balbudhe	12
16.	Pallavi Kashinath Lonkar	20
17.	Prachi Manoj Singh	18
18.	Prajakta Sanjay Puranik	16
19.	Prajwal Thakare	20
20.	Pratiksha Khemra jZure	19
21.	Priyanka Babulal Jangid	Absent
22.	Rashmi Rewaram Nanhe	10
23.	Roshan Sanjay Bhalshankar	16
24.	Rupal Dewaji Gumgaonkar	9
25.	Sagar Mahipal Motghare	19
26.	Sameer Anil Deshmukh	19
27.	Sampada Avinash Salphale	18
28.	Sana Parveen Sheikh	16
29.	Shivani Pramod Pawade	19
30.	Shraddha Subodh Wasnik	19
31.	Shubham Devidas Damedhar	Absent
32.	Shubham Nandkishor Rakas	7
33.	Shweta Ravindra Dhanorkar	17

34.	Surabhi Sanjay Wasnik	16
35.	Swati Kaushlendra Mishra	20
36.	Vaibhav Sanjay Hirekhan	10
37.	Vaishnavi Vishnu Makde	15
38.	Yogita Ajit Kaushal	15



**Signature of the Teacher**



**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur.  
Academic Session 2019-2020  
Master of Science (M.Sc.) Semester-III (Computer Science)  
Neural Network (Paper-III)  
Unit Test - I**

**Time :1 Hour]**

**[Maximum Marks: 20**

**Question 1. Solve any two**

- |   |   |
|---|---|
| A. Explain linear separable and non separable patterns.                           | 8 |
| B. Explain Perceptron Learning and Non-separable Sets.                            | 8 |
| C. Explain the Steepest Descent Search with Exact Gradient Information in detail. | 8 |
| D. Explain the following neuron signal functions:                                 | 8 |
| i. Sigmoid signal Function  |   |
| ii. Gaussian signal Function  |   |

**Question 2. Solve any one**

- |   |   |
|---|---|
| A. Write the components of Neural Networks.                         | 4 |
| B. Explain with a neat diagram the unsupervised learning algorithm. | 4 |
| C. Explain the Pocket Convergence Theorem.                          | 4 |




Signature of the Teacher

Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur.  
Department of Computer Science  
M. Sc. Semester-III (Computer Science) Session 2019-20  
Unit Test - II**

Name of the Teacher: Mrs. Swati S Khandalkar

Date: 26/09/2019

Subject: Neural Network (Paper-III)

Maximum Marks :20

Sr. No.	Name of Students	Obtained Marks
1.	Amit Girish Paliwal	12
2.	Ankita Chandrashekhar Bandhekar	18
3.	Faraz Mohammad Iqbal Sayyed	7
4.	Gaurav Prabhakar Salwatkar	14
5.	Indrayani Parshuramkar	13
6.	Juhi Vijay Wadnerkar	15
7.	Ketaki Kumeriya	18
8.	Khyati Ghanshyam Patel	15
9.	Komal Gopal Thawkar	15
10.	Leena Praful Chauhan	16
11.	Minakshi Subhash Hatwar	13
12.	Namrata Vasant Rahangdale	11
13.	Nikita S. Katole	15
14.	Nilesh Bhanu Nayak	11
15.	Nilima Harichndra Balbudhe	Absent
16.	Pallavi Kashinath Lonkar	17
17.	Prachi Manoj Singh	15
18.	Prajakta Sanjay Puranik	14
19.	Prajwal Thakare	11
20.	Pratiksha Khemra jZure	9
21.	Priyanka Babulal Jangid	15
22.	Rashmi Rewaram Nanhe	17
23.	Roshan Sanjay Bhalshankar	20

24.	Rupal Dewaji Gumgaonkar	13
25.	Sagar Mahipal Motghare	17
26.	Sameer Anil Deshmukh	Absent
27.	Sampada Avinash Salphale	16
28.	Sana Parveen Sheikh	15
29.	Shivani Pramod Pawade	10
30.	Shraddha Subodh Wasnik	10
31.	Shubham Devidas Damedhar	7
32.	Shubham Nandkishor Rakas	8
33.	Shweta Ravindra Dhanorkar	Absent
34.	Surabhi Sanjay Wasnik	16
35.	Swati Kaushlendra Mishra	10
36.	Vaibhav Sanjay Hirekhan	17
37.	Vaishnavi Vishnu Makde	11
38.	Yogita Ajit Kaushal	19



Signature of the Teacher



Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's**  
**Science College, Congress Nagar, Nagpur.**  
**Academic Session 2019-2020**  
**Master of Science (M.Sc.) Semester-III (Computer Science)**  
**Neural Network (Paper-III)**  
**Unit Test - II**

Time :1 Hour]

[Maximum Marks: 20

**Question 1. Solve any two**

- A. Discuss Backpropagation Learning Algorithm for a Multilayer network. 8
- B. Explain the Error Functions for Classification Problems. 8
- C. Discuss the Fast Relatives of Backpropagation. 8
- D. What do you understand by the terms: 8
- Learning
  - Generalization
  - Function approximation in context of ANN.

**Question 2. Solve any one**

- A. Write down the Learning Procedure of Backpropagation Learning Algorithm. 4
- B. Discuss the Support Vector Machines. 4
- C. Explain the Network signals and Class posteriors. 4

**Signature of the Teacher****Head  
Department of Computer Science**

Professor & Head  
Department of Computer Science  
S. S. E. S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M. Sc. Semester – III (Computer Science) Session 2019-20  
Unit Test - I**

**Name of Teacher: S.B.Raipure****Date: 25/09/2019****Subject: Mobile Computing (Paper-IV)****Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Amit Girish Paliwal	11
2.	Ankita Chandrashekar Bandhekar	10
3.	Faraz Mohammad Iqbal Sayyed	09
4.	Gaurav Prabhakar Salwatkar	Absent
5.	Indrayani Parshuramkar	18
6.	Juhi Vijay Wadnerkar	15
7.	Ketaki Kumeriya	11
8.	Khyati Ghanshyam Patel	10
9.	Komal Gopal Thawkar	09
10.	Leena Praful Chauhan	Absent

11.	Minakshi Subhash Hatwar	18
12.	Namrata Vasant Rahangdale	15
13.	Nikita S. Katole	11
14.	Nilesh Bhanu Nayak	10
15.	Nilima Harichndra Balbudhe	09
16.	Pallavi Kashinath Lonkar	Absent
17.	Prachi Manoj Singh	18
18.	Prajakta Sanjay Puranik	15
19.	Prajwal Thakare	11
20.	Pratiksha Khemraj Zure	10
21.	Priyanka Babulal Jangid	09
22.	Rashmi Rewaram Nanhe	Absent
23.	Roshan Sanjay Bhalshankar	18
24.	Rupal Dewaji Gumgaonkar	15
25.	Sagar Mahipal Motghare	11
26.	Sameer Anil Deshmukh	10
27.	Sampada Avinash Salphale	09
28.	Sana Parveen Sheikh	Absent
29.	Shivani Pramod Pawade	18
30.	Shraddha Subodh Wasnik	15
31.	Shubham Devidas Damedhar	11
32.	Shubham Nandkishor Rakas	10
33.	Shweta Ravindra Dhanorkar	09
34.	Surabhi Sanjay Wasnik	Absent
35.	Swati Kaushlendra Mishra	18
36.	Vaibhav Sanjay Hirekhan	15
37.	Vaishnavi Vishnu Makde	11
38.	Yogita Ajit Kaushal	10



Signature of the Teacher



Head  
Department of the Computer Science



Professor & Head  
Department of Computer Science  
S. S. E. S. Am's Science College,  
Congress Nagar, Nagpur



**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-2020  
Master of Science (M.Sc.) Semester-III (Computer Science)  
Mobile Computing (Paper-IV)  
UNIT TEST - I**

**Time: 1 Hour]**

**[Maximum Marks: 20**

**Q1. Answer the Following (Any 2)**

- |  |   |
|--|---|
| A. Write a note on GPRS.   | 8 |
| B. What is multiplexing ? Explain its types.                     | 8 |
| C. Explain packet delivery management over mobile IP.            | 8 |
| D. Write a note on IMT 2000 3G wireless communication standards. | 8 |

**Q2. Answer the Following (Any 1)**

- |  |   |
|--|---|
| A. State limitations of mobile devices in detail.    | 4 |
| B. Explain calling handover in mobile communication. | 4 |
| C. What do you mean by tunneling ? Explain.          | 4 |



**Signature of the Teacher**



**Head  
Department of the Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Amravati Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M. Sc. Semester – III (Computer Science) Session 2019-20  
Unit Test - II**

**Name of Teacher: S.B.Raipure**

**Date: 12/12/2019**

**Subject: Mobile Computing (Paper-IV)**

**Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Amit GirishPaliwal	18
2.	Ankita Chandrashekhar Bandhekar	15
3.	Faraz Mohammad Iqbal Sayyed	11
4.	Gaurav Prabhakar Salwatkar	10
5.	Indrayani Parshuramkar	09
6.	Juhi Vijay Wadnerkar	Absent
7.	Ketaki Kumeriya	18
8.	Khyati Ghanshyam Patel	Absent
9.	Komal Gopal Thawkar	18
10.	Leena Praful Chauhan	15

11.	Minakshi Subhash Hatwar	11
12.	Namrata Vasant Rahangdale	10
13.	Nikita S. Katole	09
14.	Nilesh Bhanu Nayak	Absent
15.	Nilima Harichandra Balbudhe	18
16.	Pallavi Kashinath Lonkar	10
17.	Prachi Manoj Singh	15
18.	Prajakta Sanjay Puranik	Absent
19.	Prajwal Thakare	18
20.	Pratiksha Khemraj Zure	15
21.	Priyanka Babulal Jangid	11
22.	Rashmi Rewaram Nanhe	10
23.	Roshan Sanjay Bhalshankar	09
24.	Rupal Dewaji Gumgaonkar	Absent
25.	Sagar Mahipal Motghare	18
26.	Sameer Anil Deshmukh	15
27.	Sampada Avinash Salphale	11
28.	Sana Parveen Sheikh	10
29.	Shivani Pramod Pawade	09
30.	Shraddha Subodh Wasnik	Absent
31.	Shubham Devidas Damedhar	18
32.	Shubham Nandkishor Rakas	15
33.	Shweta Ravindra Dhanorkar	11
34.	Surabhi Sanjay Wasnik	10
35.	Swati Kaushlendra Mishra	09
36.	Vaibhav Sanjay Hirekhan	Absent
37.	Vaishnavi Vishnu Makde	18
38.	Yogita Ajit Kaushal	15



Signature of the Teacher



Head

Department of the Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Amis Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-2020  
Master of Science (M.Sc.) Semester-III (Computer Science)  
Mobile Computing (Paper-IV)  
UNIT TEST - II**

**Time: 1 Hour]**

**[Maximum Marks: 20**

**Q1. Answer the Following (Any 2)**

- A. What are the layers of data delivery mechanism ? Explain. 8  
B. Explain selective tuning and indexing techniques for mobile computing. 8  
C. Explain usability of JAVA and XML for mobile application. 8  
D. Explain application layers of Bluetooth protocol for mobile communication. 8

**Q2. Answer the Following (Any 1)**

- A. Explain Hostsync synchronization software for mobile devices. 4  
B. Write short notes on : (i) Portals (ii) Gateways. 4  
C. Explain ZigBee Mobile Application. 4



**Signature of the Teacher**



**Head  
Department of the Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am't's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M. Sc. Semester – II (Computer Science) Session 2019-20  
Unit Test-I**

**Name of Teacher: S.B.Raipure**

**Date: 01/02/2020**

**Subject: Windows Programming using VC++(Paper-I) Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Aishwarya Manohar Kadu	18
2.	Aishwarya N.Jadhav	17
3.	Akash Vijay Rajurkar	Absent
4.	Alpa Babu Shinde	13
5.	Ambika Dhanraj Nagpure	12
6.	Archana C.Waghmare	15
7.	Ayshu Ashutosh Pandey	16
8.	Bhavana Suresh Kamble	12
9.	Damini Banduji Shende	10

10.	Darshana Sanjay Maske	11
11.	Kalyani P. Dhumankhede	14
12.	Karuna Ashok Kapgate	17
13.	Kasturi Shyam Nisal	12
14.	Manisha Mahendra Mari	14
15.	Naina Babban Yadav	15
16.	Nikita Nitendra Wakodkar	18
17.	Payal Kishor Shete	13
18.	Piyu Vinayak Nagpure	14
19.	Pooja Chopdeo Nandanwar	13
20.	Pratiksha Rajendra Fulkar	12
21.	Priya Laxmanrao Latore	11
22.	Priya Narayan Fule	13
23.	Renu Asharfi Sah	15
24.	Rutuja Diwakar Takit	18
25.	Roshani Khiran Mandlekar	17
26.	Roshani P. Gajbhiye	Absent
27.	Ruchira Rajesh Bhanarkar	13
28.	Sandhya Suroshe	12
29.	Shivani Yashwant Naitam	15
30.	Shweta A. Jaiswal	16
31.	Suraj Sevak Gawande	12
32.	Swathi Rathnam Premar	10
33.	Urvashi D. Banothe	11



Signature of the Teacher



Head

Department of the Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-2020  
Master of Science (M. Sc.) Semester-II (Computer Science)  
Windows Programming using VC++(Paper-I)  
UNIT TEST- I**

**Time: 1 Hour]**

**[Maximum Marks: 20**

**Q1. Answer the Following (Any 2)**

- A. Explain windows programming model in brief ? 8  
B. What is GDI ? Explain different GDI object in brief . 8  
C. What is SDI application ? Describe reading and writing SDI applications. 8  
D. Explain the following : (i) Reusable frame window base class (ii) Printing and print preview. 8

**Q2. Answer the Following (Any 1)**

- A. Explain Dynamic and Static splitter window. 4  
B. Write a note on property sheet. 4  
C. Explain in short Windows common control. 4



**Signature of the Teacher**



**Head  
Department of the Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Amravati's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M. Sc. Semester – II (Computer Science) Session 2019-20  
Unit Test-II**

**Name of Teacher: S.B.Raipure**

**Date: 16/03/2020**

**Subject: Windows Programming using VC++(Paper-I) Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Aishwarya Manohar Kadu	18
2.	Aishwarya N.Jadhav	17
3.	Akash Vijay Rajurkar	Absent
4.	Alpa Babu Shinde	13
5.	Ambika Dhanraj Nagpure	12
6.	Archana C.Waghmare	15
7.	Ayshu Ashutosh Pandey	16

8.	Bhavana Suresh Kamble	12
9.	Damini Banduji Shende	10
10.	Darshana Sanjay Maske	11
11.	Kalyani P. Dhumankhede	14
12.	Karuna Ashok Kapgate	Absent
13.	Kasturi Shyam Nisal	18
14.	Manisha Mahendra Mari	17
15.	Naina Babban Yadav	Absent
16.	Nikita Nitendra Wakodkar	13
17.	Payal Kishor Shete	12
18.	Piyu Vinayak Nagpure	15
19.	Pooja Chopdeo Nandanwar	16
20.	Pratiksha Rajendra Fulkar	10
21.	Priya Laxmanrao Latore	18
22.	Priya Narayan Fule	17
23.	Renu Asharfi Sah	Absent
24.	Rutuja Diwakar Takit	13
25.	Roshani Khiran Mandlekar	12
26.	Roshani P. Gajbhiye	15
27.	Ruchira Rajesh Bhanarkar	16
28.	Sandhya Suroshe	12
29.	Shivani Yashwant Naitam	10
30.	Shweta A. Jaiswal	11
31.	Suraj Sevak Gawande	14
32.	Swathi Rathnam Premar	17
33.	Urvashi D. Banothe	12



Signature of the Teacher



Head  
Department of the Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-2020  
Master of Science (M. Sc.) Semester-II (Computer Science)  
Windows Programming using VC++(Paper-I)  
UNIT TEST- II**

**Time: 1 Hour]**

**[Maximum Marks: 20**

**Q1. Answer the Following (Any 2)**

- |  |   |
|--|---|
| A. Explain OLE embedded component and container? | 8 |
| B. Write a note on structure storage in detail.  | 8 |
| C. What is DAO ? Explain classes used in DAO.    | 8 |
| D. Write notes on : (i) DHTML (ii) Windows CE.   | 8 |

**Q2. Answer the Following (Any 1)**

- |  |   |
|--|---|
| A. What is Uniform Data Transfer?                  | 4 |
| B. What are the advantages of Data Access Objects? | 4 |
| C. Discuss the steps to create Active-X controls.  | 4 |



**Signature of the Teacher**



**Head**

**Department of the Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Amravati's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M. Sc. Semester – II (Computer Science) Session 2019-20  
Unit Test - I**

**Name of Teacher: Mr. M. T. Wanjari**

**Date: 17/03/2020**

**Subject: Theory of Computation and Compiler Construction (Paper-II)**

**Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Aishwarya Manohar Kadu	10
2.	Aishwarya N. Jadhav	09
3.	Akash Vijay Rajurkar	AB
4.	Alpa Babu Shinde	12
5.	Ambika Dhanraj Nagpure	10
6.	Archana C.Waghmare	16
7.	Ayshu Ashutosh Pandey	14
8.	Bhavana Suresh Kamble	12
9.	Damini Banduji Shende	10

10.	Darshana Sanjay Maske	16
11.	Kalyani P. Dhumankhede	10
12.	Karuna Ashok Kapgate	15
13.	Kasturi Shyam Nisal	14
14.	Manisha Mahendra Mari	16
15.	Naina Babban Yadav	10
16.	Nikita Nitendra Wakodkar	09
17.	Payal Kishor Shete	08
18.	Piyu Vinayak Nagpure	09
19.	Pooja Chopdeo Nandanwar	10
20.	Pratiksha Rajendra Fulkar	06
21.	Priya Laxmanrao Latare	08
22.	Priya Narayan Fule	AB
23.	Renu Asharfi Sah	12
24.	Rutuja Diwakar Takit	09
25.	Roshani Khiran Mandlekar	10
26.	Roshani P. Gajbhiye	11
27.	Ruchira Rajesh Bhanarkar	13
28.	Sandhya Suroshe	12
29.	Shivani Yashwant Naitam	08
30.	Shweta A. Jaiswal	07
31.	Suraj Sevak Gawande	AB
32.	Swathi Rathnam Premar	10
33.	Urvashi D. Banothe	09

Signature of the Teacher

Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-20  
Master of Science (M. Sc.) Semester – II (Computer Science)  
Theory of Computation and Compiler Construction (Paper-II)  
Unit Test – I**

**Time: 1 Hour]**

**[Maximum Marks: 20**

**Q. 1 (Solve any two question)**

E. Prove that if L is a set accepted by a NFA, then exists a DFA that accepts L.



F. Prove that if L is accepted by NFA with  $\epsilon$ - transitions, then L is accepted by an NFA without  $\epsilon$ -transitions. 8

C. Construct a PDA equivalent to the following grammar:

i.  $S \rightarrow aAA$

ii.  $A \rightarrow aS/bS/a.$

Show that  $L = \{a^i b^j c^k \mid i < j < k\}$  is not CFL. 8

D. Construct the PDA equivalent to the following grammar: 8

$S \rightarrow S_1, S \rightarrow S_2, S_1 \rightarrow aS_1b, S_1 \rightarrow ab, S_2 \rightarrow aS_2b, S \rightarrow abb$

**Q. 2 (Solve any one question)**

A. Explain properties of recursive and recursively enumerable problem. 4

B. What is Context free grammar explain? 4

C. Turing machine as Enumerator. 4



Signature of the Teacher



Head

Department of Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

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

**M. Sc. Semester – II (Computer Science) Session 2019-20**

**Unit Test - II**

**Name of Teacher: Mr. M. T. Wanjari**

**Date: 15/04/2020**

**Subject: Theory of Computation and Compiler Construction (Paper-II)**

**Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Aishwarya Manohar Kadu	11
2.	Aishwarya N. Jadhav	10
3.	Akash Vijay Rajurkar	10
4.	Alpa Babu Shinde	10
5.	Ambika Dhanraj Nagpure	AB
6.	Archana C.Waghmare	14
7.	Ayshu Ashutosh Pandey	16
8.	Bhavana Suresh Kamble	14
9.	Damini Banduji Shende	12
10.	Darshana Sanjay Maske	18
11.	Kalyani P. Dhumankhede	10
12.	Karuna Ashok Kapgate	12
13.	Kasturi Shyam Nisal	15
14.	Manisha Mahendra Mari	14

15.	Naina Babban Yadav	10
16.	Nikita Nitendra Wakodkar	10
17.	Payal Kishor Shete	12
18.	Piyu Vinayak Nagpure	10
19.	Pooja Chopdeo Nandanwar	AB
20.	Pratiksha Rajendra Fulkar	09
21.	Priya Laxmanrao Latore	10
22.	Priya Narayan Fule	13
23.	Renu Asharfi Sah	10
24.	Rutuja Diwakar Takit	10
25.	Roshani Khiran Mandlekar	09
26.	Roshani P. Gajbhiye	10
27.	Ruchira Rajesh Bhanarkar	12
28.	Sandhya Suroshe	13
29.	Shivani Yashwant Naitam	12
30.	Shweta A. Jaiswal	10
31.	Suraj Sevak Gawande	09
32.	Swathi Rathnam Premar	09
33.	Urvashi D. Banothe	10



**Signature of the Teacher**



**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Amravati's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-20  
Master of Science (M. Sc.) Semester – II (Computer Science)  
Theory of Computation and Compiler Construction (Paper-II)  
Unit Test – II**

**Time: 1 Hour]**

**[Maximum Marks: 20**

**Q. 1 (Solve any two question)**

- |   |   |
|---|---|
| A. Explain predictive parsers with suitable example.                          | 8 |
| B. What is “Error Handling” How is it useful in different phases of Compiler. | 8 |
| C. What is symbol table? Explain symbol table organization in details.        | 8 |
| D. Explain in detail the DAG representation of basic block.                   | 8 |

**Q. 2 (Solve any one question)**

- A. Explain recursive descent parsing. 4  
B. Discuss operator precedence relations from associativity and precedence. 4  
C. What is Top down Parsing? 4



**Signature of the Teacher**



**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M.Sc. Semester-II (Computer Science) Session 2019-2020  
Unit Test - I**

**Name of Teacher: S.S.Shende**

**Date:11/03/2020**

**Subject: Computer Architecture & Organization (Paper III)**

**Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Aishwarya Manohar Kadu	13
2.	Aishwarya N Jadhav	16
3.	Akash Vijay Rajurkar	18
4.	Alpa Babu Shinde	17
5.	Ambika Dhanraj Nagpure	Absent
6.	Archana C.Waghmare	16
7.	Ayshu Ashutosh Pandey	Absent
8.	Bhavana Suresh Kamble	Absent
9.	Damini Banduji Shende	13
10.	Darshana Sanjay Maske	17
11.	Kalyani P. Dhumankhede	Absent
12.	Karuna Ashok Kapgate	16
13.	Kasturi Shyam Nisal	Absent

14.	Manisha Mahendra Mari	Absent
15.	Naina Babban Yadav	13
16.	Nikita Nitendra Wakodkar	13
17.	Payal Kishor Shete	16
18.	Piyu Vinayak Nagpure	13
19.	Pooja Chopdeo Nandanwar	17
20.	Pratiksha Rajendra Fulkar	12
21.	Priya Laxmanrao Latore	13
22.	Priya Narayan Fule	12
23.	Renu Asharfi Sah	18
24.	Rutuja Diwakar Takit	17
25.	Roshani Khiran Mandlekar	12
26.	Roshani P. Gajbhiye	16
27.	Ruchira Rajesh Bhanarkar	17
28.	Sandhya Suroshe	Absent
29.	Shivani Yashwant Naitam	16
30.	Shweta A. Jaiswal	Absent
31.	Suraj Sevak Gawande	Absent
32.	Swathi Rathnam Premar	13
33.	Urvashi D. Banothe	17

**Signature of the Teacher**

**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-20**

**Master of Science (M. Sc.) Semester – II (Computer Science)  
Computer Architecture & Organization (Paper - III)  
Unit Test - I**

**Time: 1 hour]**

**[Maximum Marks:20**

**Q1. Answer the Following (Any 2)**

- A. What is instruction ? What are its types ?  
Explain each one with its formats. 8
- B. What is Pipelining ? Explain its advantages. 8
- C. What are the different layers in computer architecture ?  
Explain each in brief. 8
- D. What is RISC and CISC ? Differentiate between  
RISC and CISC and give their advantages and disadvantages. 8

**Q2. Answer the Following (Any 1)**

- A. Explain instruction and execution cycle? 4
- B. Explain Data path and Control path design? 4
- C. Explain hardware interaction in computer architecture? 4



**Signature of the Teacher**



**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College.  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M.Sc. Semester-II (Computer Science) Session 2019-2020  
Unit Test - II**

**Name of Teacher: S.S.Shende**

**Date: 22/04/2020**

**Subject: Computer Architecture & Organization (Paper III)**

**Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Aishwarya Manohar Kadu	14
2.	Aishwarya N Jadhav	13
3.	Akash Vijay Rajurkar	16

4.	Alpa Babu Shinde	12
5.	Ambika Dhanraj Nagpure	16
6.	Archana C.Waghmare	13
7.	Ayshu Ashutosh Pandey	17
8.	Bhavana Suresh Kamble	14
9.	Damini Banduji Shende	13
10.	Darshana Sanjay Maske	16
11.	Kalyani P. Dhumankhede	13
12.	Karuna Ashok Kapgate	Absent
13.	Kasturi Shyam Nisal	Absent
14.	Manisha Mahendra Mari	12
15.	Naina Babban Yadav	16
16.	Nikita Nitendra Wakodkar	13
17.	Payal Kishor Shete	13
18.	Piyu Vinayak Nagpure	16
19.	Pooja Chopdeo Nandanwar	18
20.	Pratiksha Rajendra Fulkar	17
21.	Priya Laxmanrao Latare	Absent
22.	Priya Narayan Fule	18
23.	Renu Asharfi Sah	17
24.	Rutuja Diwakar Takit	12
25.	Roshani Khiran Mandlekar	16
26.	Roshani P. Gajbhiye	17
27.	Ruchira Rajesh Bhanarkar	Absent
28.	Sandhya Suroshe	16
29.	Shivani Yashwant Naitam	16
30.	Shweta A. Jaiswal	13
31.	Suraj Sevak Gawande	17

32.	Swathi Rathnam Premar	12
33.	Urvashi D. Banothe	13



Signature of the Teacher



Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Amravati's Science College,  
Congress Nagar, Nagpur

Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-20

Master of Science (M. Sc.) Semester – II (Computer Science)  
Computer Architecture & Organization (Paper - III)  
Unit Test - II

Time: 1 hour]

[Maximum Marks:20

**Q1. Answer the Following (Any 2)**

- A. What are the different storage technologies ?  
Explain each one with suitable example. 8
- B. Write short notes on Transaction Processing Benchmarks. 8
- C. Write short notes on : 8  
(i) Segmentation (ii) Paging.
- D. What is interrupt ? What are its types ? Explain step wise  
actions which take place when I/O device interrupt the CPU. 8

**Q2. Answer the Following (Any 1)**

- A. What is cache memory ? Explain. What are its advantages ? 4
- B. Classify the memories on the basis of speed. 4
- C. Write a short on I/O channels. 4



Signature of the Teacher



Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Amravati's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur.  
Department of Computer Science  
M. Sc. Semester-II (Computer Science) Session 2019-20**

**Unit Test -I**

**Name of the Teacher: Mrs. Swati S Khandalkar**

**Date: 13/01/2020**

**Subject: Computer Graphics (Paper-IV)**

**Maximum Marks :20**

<b>Sr. No.</b>	<b>Name of Students</b>	<b>Obtained Marks</b>
1.	Aishwarya Manoharv Kadu	14
2.	Aishwarya N. Jadhav	11
3.	Akash Vijay Rajurkar	14
4.	Alpa Babu Shinde	Absent
5.	Ambika Dhanraj Nagpure	7
6.	Archana C. Waghmare	15
7.	Ayshu Ashutosh Pandey	17
8.	Bhavana Suresh Kamble	10
9.	Damini Banduji Shende	13
10.	Darshana Sanjay Maske	13
11.	Kalyani P. Dhumankhede	12
12.	Karuna Ashok Kapgate	Absent
13.	Kasturi Shyam Nisal	18
14.	Manisha Mahendra Mari	13
15.	Naina BabbanYadav	10
16.	Nikita Nitendra Wakodkar	14
17.	Payal Kishor Shete	Absent
18.	Piyu Vinayak Nagpure	13
19.	Pooja Chopdeo Nandanwar	19
20.	Pratiksha Rajendra Fulkar	Absent
21.	Priya Laxmanrao Latare	13
22.	Priya Narayan Fule	19
23.	Renu Asharfi Sah	17



24.	Rutuja Diwakar Takit	14
25.	Roshani Khiran Mandlekar	Absent
26.	Roshani P. Gajbhiye	14
27.	Ruchira Rajesh Bhanarkar	17
28.	Sandhya Suroshe	18
29.	Shivani Yashwant Naitam	18
30.	Shweta A. Jaiswal	12
31.	Suraj Sevak Gawande	18
32.	Swathi Rathnam Premar	19
33.	Urvashi D. Banothe	14



**Signature of the Teacher**



**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Amravati's Science College,  
Congress Nagar, Nagpur

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

**Session 2019-2020**

**Master of Science (M.Sc.) Semester-II (Computer Science)**

**Computer Graphics (Paper-IV)**

**Unit Test - I**

**Time :1 Hour ]**

**[Maximum Marks: 20**

**Question 1. Solve any two**

- |   |   |
|---|---|
| A. Differentiate between Raster Scan display and Random Scan Display.             | 8 |
| B. Discuss in detail Ellipse generating algorithm.                                | 8 |
| C. What are the graphics software? What do you mean by coordinate representation? | 8 |
| D. Explain Scan Line Polygon Fill.  | 8 |

**Question 2. Solve any one**

- |   |   |
|---|---|
| A. Explain equations of circle and ellipse. | 4 |
| B. Explain Working of Color CRT monitor.    | 4 |

C. Write the limitations of line draw algorithm.

4



**Signature of the Teacher**



**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S. S. E. S. Am's Science College,  
Congress Nagar, Nagpur


**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur.  
Department of Computer Science  
M. Sc. Semester-II (Computer Science) Session 2019-20  
Unit Test -II**

**Name of the Teacher: Mrs. Swati S Khandalkar  
Subject: Computer Graphics (Paper-IV)**

**Date: 03/02/2020  
Maximum Marks :20**

Sr. No.	Name of Students	Obtained Marks
1.	Aishwarya Manoharv Kadu	12
2.	Aishwarya N. Jadhav	18
3.	Akash Vijay Rajurkar	14
4.	Alpa Babu Shinde	13
5.	Ambika Dhanraj Nagpure	10
6.	Archana C. Waghmare	11
7.	Ayshu Ashutosh Pandey	16
8.	Bhavana Suresh Kamble	Absent
9.	Damini Banduji Shende	20
10.	Darshana Sanjay Maske	13
11.	Kalyani P. Dhumankhede	8
12.	Karuna Ashok Kapgate	19
13.	Kasturi Shyam Nisal	Absent
14.	Manisha Mahendra Mari	8
15.	Naina BabbanYadav	11

16.	Nikita Nitendra Wakodkar	18
17.	Payal Kishor Shete	13
18.	Piyu Vinayak Nagpure	Absent
19.	Pooja Chopdeo Nandanwar	19
20.	Pratiksha Rajendra Fulkar	11
21.	Priya Laxmanrao Latare	15
22.	Priya Narayan Fule	11
23.	Renu Asharfi Sah	15
24.	Rutuja Diwakar Takit	13
25.	Roshani Khiran Mandlekar	14
26.	Roshani P. Gajbhiye	9
27.	Ruchira Rajesh Bhanarkar	16
28.	Sandhya Suroshe	15
29.	Shivani Yashwant Naitam	16
30.	Shweta A. Jaiswal	Absent
31.	Suraj Sevak Gawande	14
32.	Swathi Rathnam Premar	9
33.	Urvashi D. Banothe	11



**Signature of the Teacher**



**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

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

Session 2019-2020

Master of Science (M.Sc.) Semester-II (Computer Science)

Computer Graphics (Paper-IV)

Unit Test - II

Time :1 Hour ]


[Maximum Marks: 20

**Question 1. Solve any two**

- A. Explain: 8
- Bezier Curve
  - Bezier Surfaces
  - Beta spline
- B. Explain fractal construction model for shape generations. 8
- C. Explain the 3-d transformation for translation, rotation, scaling? 8
- D. Explain the following color model 8
- RGB
  - CMY

**Question 2. Solve any one**

- A. Compare the parallel and perspective projections? 4
- B. Explain HSV color model. 4
- C. Explain Gouraud shading. 4



Signature of the Teacher



Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S. S. E. S. Am's Science College,  
Congress Nagar, Nagpur

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

Department of Computer Science

M. Sc. Semester – IV (Computer Science) Session 2019-20

Unit Test -I

Name of Teacher:V.C.Pande  
Subject:Data Mining (Paper-I)

Date: 10/02/2020  
Maximum Marks: 20

<b>Sr. No.</b>	<b>Name of Students</b>	<b>Obtained Marks</b>
1.	Amit Girish Paliwal	10
2.	Ankita Chandrashekar Bandhekar	13
3.	Faraz Mohammad Iqbal Sayyed	13
4.	Gaurav Prabhakar Salwatkar	12
5.	Indrayani Parshuramkar	11
6.	Juhi Vijay Wadnerkar	12
7.	Ketaki Kumeriya	10
8.	Khyati Ghanshyam Patel	11
9.	Komal Gopal Thawkar	Absent
10.	Leena Praful Chauhan	11
11.	Minakshi Subhash Hatwar	12
12.	Namrata Vasant Rahangdale	11
13.	Nikita S. Katole	10
14.	Nilesh Bhanu Nayak	Absent
15.	Nilima Harichndra Balbudhe	15
16.	Pallavi Kashinath Lonkar	10
17.	Prachi Manoj Singh	10
18.	Prajakta Sanjay Puranik	16
19.	Prajwal Thakare	11
20.	Pratiksha Khemraj Zure	09
21.	Priyanka Babulal Jangid	14
22.	Rashmi Rewaram Nanhe	09
23.	Roshan Sanjay Bhalshankar	14
24.	Rupal Dewaji Gumgaonkar	14
25.	Sagar Mahipal Motghare	13
26.	Sameer Anil Deshmukh	14

27.	Sampada Avinash Salphale	Absent
28.	Sana Parveen Sheikh	11
29.	Shivani Pramod Pawade	12
30.	Shraddha Subodh Wasnik	10
31.	Shubham Devidas Damedhar	16
32.	Shubham Nandkishor Rakas	11
33.	Shweta Ravindra Dhanorkar	09
34.	Surabhi Sanjay Wasnik	14
35.	Swati Kaushlendra Mishra	09
36.	Vaibhav Sanjay Hirekhan	14
37.	Vaishnavi Vishnu Makde	14
38.	Yogita Ajit Kaushal	13

**Signature of the Teacher**

**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S. S. E. S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-2020  
Master of Science (M.Sc.) Semester-IV (Computer Science)  
Data Mining (Paper-I)  
UNIT TEST - I**

**Time: 1 Hour]**

**[Maximum Marks: 20**

**Q1. Answer the Following (Any 2)**

- |   |   |
|---|---|
| A. Explain dimensionality reduction with one example.                     | 8 |
| B. What is data mining ? Explain motivating challenges for data mining.   | 8 |
| C. What are the different measures of location required for data mining ? | 8 |
| D. Explain the term ROC curve and discuss interval for accuracy.          | 8 |

**Q2. Answer the Following (Any 1)**

- A .Explain sampling data in detail. 4  
B. Explain Attribute Transformation in detail. 4  
C. What is frequency and mode. 4



**Signature of the Teacher**



**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S. S. E. S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M. Sc. Semester – IV (Computer Science) Session 2019-20  
Unit Test -II**

**Name of Teacher: V.C.Pande**

**Date: 15/03/2020**

**Subject: Data Mining (Paper-I)**

**Maximum Marks: 20**

Sr.No.	Name of Students	Obtained Marks
1.	Amit Girish Paliwal	12
2.	Ankita Chandrashekhar Bandhekar	16
3.	Faraz Mohammad Iqbal Sayyed	16
4.	Gaurav Prabhakar Salwatkar	10
5.	Indrayani Parshuramkar	16
6.	Juhi Vijay Wadnerkar	11
7.	Ketaki Kumeriya	09
8.	Khyati Ghanshyam Patel	14
9.	Komal GopalThawkar	09
10.	Leena Praful Chauhan	14
11.	Minakshi Subhash Hatwar	14
12.	Namrata Vasant Rahangdale	13
13.	Nikita S. Katole	14

14.	Nilesh Bhanu Nayak	Absent
15.	Nilima Harichndra Balbudhe	11
16.	Pallavi Kashinath Lonkar	12
17.	Prachi Manoj Singh	10
18.	Prajakta Sanjay Puranik	13
19.	Prajwal Thakare	13
20.	Pratiksha Khemraj Zure	12
21.	Priyanka Babulal Jangid	11
22.	Rashmi Rewaram Nanhe	12
23.	Roshan Sanjay Bhalshankar	10
24.	Rupal Dewaji Gumgaonkar	11
25.	Sagar Mahipal Motghare	Absent
26.	Sameer Anil Deshmukh	11
27.	Sampada Avinash Salphale	12
28.	Sana Parveen Sheikh	11
29.	Shivani Pramod Pawade	10
30.	Shraddha Subodh Wasnik	Absent
31.	Shubham Devidas Damedhar	15
32.	Shubham Nandkishor Rakas	10
33.	Shweta Ravindra Dhanorkar	10
34.	Surabhi Sanjay Wasnik	13
35.	Swati Kaushlendra Mishra	13
36.	Vaibhav Sanjay Hirekhan	12
37.	Vaishnavi Vishnu Makde	11
38.	Yogita Ajit Kaushal	12



**Signature of the Teacher**



**Head  
Department of Computer Science**





Professor & Head  
Department of Computer Science  
S. S. E. S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-2020  
Master of Science (M.Sc.) Semester-IV (Computer Science)  
Data Mining (Paper-I)  
UNIT TEST - II**

**Time: 1 Hour]**

**[Maximum Marks: 20**

**Q1. Answer the Following (Any 2)**

- |   |   |
|---|---|
| A. Give a note on Naive Bayes classifier.                     | 8 |
| B. Write a note on FP Growth Algorithm.                       | 8 |
| C. Write an algorithm for SNN clustering.                     | 8 |
| D. Explain clustering algorithm with Hierarchical clustering. | 8 |

**Q2. Answer the Following (Any 1)**

- |                                      |   |
|--------------------------------------|---|
| A. Explain the concept of Hash Tree. | 4 |
| B. Explain k-means algorithm.        | 4 |
| C. Explain hierarchical clustering.  | 4 |

**Signature of the Teacher**

**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S. S. E. S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M.Sc. Semester-IV (Computer Science) Session 2019-2020  
Unit Test - I**

**Name of Teacher: H Yadav**

**Date: 13/02/2020**

**Subject: Artificial Intelligence & Expert System (Paper II) Maximum Marks: 20**

Sr.No.	Name of Students	Obtained Marks
1.	Amit Girish Paliwal	13
2.	Ankita Chandrashekhar Bandhekar	16

3.	Faraz Mohammad Iqbal Sayyed	18
4.	Gaurav Prabhakar Salwatkar	17
5.	Indrayani Parshuramkar	Absent
6.	Juhi Vijay Wadnerkar	18
7.	Ketaki Kumeriya	17
8.	KhyatiGhanshyam Patel	12
9.	KomalGopalThawkar	16
10.	Leena Praful Chauhan	17
11.	Minakshi Subhash Hatwar	Absent
12.	NamrataVasant Rahangdale	18
13.	Nikita S. Katole	17
14.	Nilesh Bhanu Nayak	Absent
15.	Nilima Harichndra Balbudhe	16
16.	Pallavi KashinathLonkar	Absent
17.	Prachi Manoj Singh	Absent
18.	Prajakta Sanjay Puranik	13
19.	Prajwal Thakare	17
20.	Pratiksha Khemraj Zure	14
21.	Priyanka Babulal Jangid	13
22.	Rashmi Rewaram Nanhe	16
23.	Roshan Sanjay Bhalshankar	18
24.	Rupal Dewaji Gumgaonkar	17
25.	Sagar Mahipal Motghare	13
26.	Sameer Anil Deshmukh	16
27.	Sampada Avinash Salphale	18
28.	Sana Parveen Sheikh	17
29.	Shivani Pramod Pawade	Absent
30.	Shraddha Subodh Wasnik	18
31.	Shubham Devidas Damedhar	17

32.	Shubham Nandkishor Rakas	12
33.	Shweta Ravindra Dhanorkar	16
34.	Surabhi Sanjay Wasnik	17
35.	Swati Kaushlendra Mishra	Absent
36.	Vaibhav Sanjay Hirekhan	16
37.	Vaishnavi Vishnu Makde	16
38.	Yogita Ajit Kaushal	13



Signature of the Teacher



Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S. S. E. S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
Master of Science (M.Sc.) Semester-IV (Computer Science)  
Artificial Intelligence & Expert System (Paper - II)  
Unit Test - I**

Time: 1 hour]

[Maximum Marks:20

**Q1. Answer the Following (Any 2)**

- |   |   |
|---|---|
| A. Explain and write algorithm A*.  | 8 |
| B. Explain the Forward versus Backward Reasoning.   | 8 |
| C. What is artificial intelligence? Discuss the different techniques of artificial intelligence.                          | 8 |
| D. What are computation functions? Discuss in detail how to judge the solution is available or not for the given problem? | 8 |

**Q2. Answer the Following (Any 1)**

- |   |   |
|---|---|
| A. Distinguish between Depth-first search and Breadth-first search? | 4 |
| B. What are AI techniques? Explain.                                 | 4 |
| C. Discuss the issues in knowledge Representation.                  | 4 |





Signature of the Teacher

Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S. S. E. S. Am's Science College,  
Congress Nagar, Nagpur

Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M.Sc. Semester-IV (Computer Science) Session 2019-2020

Unit Test - II

Name of Teacher: H Yadav

Date: 10/03/2020

Subject: Artificial Intelligence & Expert System (Paper II)

Maximum Marks: 20

Sr.No.	Name of Students	Obtained Marks
1.	Amit Girish Paliwal	16
2.	Ankita Chandrashekhar Bandhekar	13
3.	Faraz Mohammad Iqbal Sayyed	17
4.	Gaurav Prabhakar Salwatkar	12
5.	Indrayani Parshuramkar	13
6.	Juhi Vijay Wadnerkar	12
7.	Ketaki Kumeriya	18
8.	Khyati Ghanshyam Patel	17
9.	Komal Gopal Thawkar	17
10.	Leena Praful Chauhan	Absent
11.	Minakshi Subhash Hatwar	14
12.	Namrata Vasant Rahangdale	13
13.	Nikita S. Katole	17
14.	Nilesh Bhanu Nayak	12
15.	Nilima Harichndra Balbudhe	13
16.	Pallavi Kashinath Lonkar	12
17.	Prachi Manoj Singh	17
18.	Prajakta Sanjay Puranik	Absent
19.	Prajwal Thakare	18

20.	Pratiksha Khemraj Zure	17
21.	Priyanka Babulal Jangid	12
22.	Rashmi Rewaram Nanhe	16
23.	Roshan Sanjay Bhalshankar	17
24.	Rupal Dewaji Gumgaonkar	Absent
25.	Sagar Mahipal Motghare	18
26.	Sameer Anil Deshmukh	17
27.	Sampada Avinash Salphale	Absent
28.	Sana Parveen Sheikh	17
29.	Shivani Pramod Pawade	13
30.	Shraddha Subodh Wasnik	17
31.	Shubham Devidas Damedhar	12
32.	Shubham Nandkishor Rakas	13
33.	Shweta Ravindra Dhanorkar	12
34.	Surabhi Sanjay Wasnik	18
35.	Swati Kaushlendra Mishra	17
36.	Vaibhav Sanjay Hirekhan	17
37.	Vaishnavi Vishnu Makde	13
38.	Yogita Ajit Kaushal	17



**Signature of the Teacher**



**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
Master of Science (M.Sc.) Semester-IV (Computer Science)  
Artificial Intelligence & Expert System (Paper - II)  
Unit Test - II**

**Time: 1 hour]**

**[Maximum Marks:20**

**Q1. Answer the Following (Any 2)**

- A. What are different types of game playing strategies? Explain in detail. 8  
B. What is Psychological Modeling? Explain distributed Reasoning System. 8  
C. What is planning system in AI? Discuss the component of planning system 8  
D. What do you understand by the term "Natural Language Processing"? Explain .8

**Q2. Answer the Following (Any 1)**

- A. Explain Alpha beta cutoff. 4  
B. Explain in detail semantic and syntactic analysis. 4  
C. Discuss Unification grammars in AI. 4



**Signature of the Teacher**



**Head**

**Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Amravati Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur.  
Department of Computer Science  
M. Sc. Semester-IV (Computer Science) Session 2019-20  
Unit Test - I**

**Name of the Teacher: Mrs. Swati S Khandalkar**

**Date: 13/01/2020**

**Subject: Embedded System (Paper-III)**

**Maximum Marks :20**

Sr. No.	Name of Students	Obtained Marks
1.	Amit Girish Paliwal	13
2.	Ankita Chandrashekhar Bandhekar	Absent
3.	Faraz Mohammad Iqbal Sayyed	12
4.	Gaurav Prabhakar Salwatkar	11
5.	Indrayani Parshuramkar	14
6.	Juhi Vijay Wadnerkar	Absent

7.	Ketaki Kumeriya	20
8.	Khyati Ghanshyam Patel	18
9.	Komal Gopal Thawkar	15
10.	Leena Praful Chauhan	9
11.	Minakshi Subhash Hatwar	8
12.	Namrata Vasant Rahangdale	10
13.	Nikita S. Katole	Absent
14.	Nilesh Bhanu Nayak	7
15.	Nilima Harichndra Balbudhe	8
16.	Pallavi Kashinath Lonkar	10
17.	Prachi Manoj Singh	13
18.	Prajakta Sanjay Puranik	Absent
19.	Prajwal Thakare	16
20.	Pratiksha Khemra jZure	20
21.	Priyanka Babulal Jangid	9
22.	Rashmi Rewaram Nanhe	Absent
23.	Roshan Sanjay Bhalshankar	14
24.	Rupal Dewaji Gumgaonkar	14
25.	Sagar Mahipal Motghare	14
26.	Sameer Anil Deshmukh	14
27.	Sampada Avinash Salphale	8
28.	Sana Parveen Sheikh	11
29.	Shivani Pramod Pawade	19
30.	Shraddha Subodh Wasnik	19
31.	Shubham Devidas Damedhar	10
32.	Shubham Nandkishor Rakas	18
33.	Shweta Ravindra Dhanorkar	11

34.	Surabhi Sanjay Wasnik	20
35.	Swati Kaushlendra Mishra	14
36.	Vaibhav Sanjay Hirekhan	16
37.	Vaishnavi Vishnu Makde	16
38.	Yogita Ajit Kaushal	16



**Signature of the Teacher**



**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S. S. E. S. Amt's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur.  
Session 2019-2020  
Master of Science (M.Sc.) Semester-IV (Computer Science)  
Embedded System (Paper-III)  
Unit Test - I**

**Time :1 Hour]**

**[Maximum Marks: 20**

**Question 1. Solve any two**

- |   |   |
|---|---|
| A. Define embedded system. What are type of embedded system? What are the Skills required for embedded system design? | 8 |
| B. What are the source of Interrupt? How can embedded system handle interrupt?  | 8 |
| C. Explain serial and parallel port device driver in a system.  | 8 |
| D. Explain serial and parallel port device driver in a system.  | 8 |

**Question 2. Solve any one**

- |   |   |
|---|---|
| A. Explain in short the process of embedded system development. | 4 |
| B. Explain use of VLSI circuit.                                 | 4 |
| C. Explain interrupt latency.                                   | 4 |



Signature of the Teacher

Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S. S. E. S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur.  
Department of Computer Science  
M. Sc. Semester-IV (Computer Science) Session 2019-20  
Unit Test - II**

Name of the Teacher: Mrs. Swati S Khandalkar

Date: 03/02/2020

Subject: Embedded System (Paper-III)

Maximum Marks :20

Sr. No.	Name of Students	Obtained Marks
1.	Amit Girish Paliwal	13
2.	Ankita Chandrashekhar Bandhekar	13
3.	Faraz Mohammad Iqbal Sayyed	14
4.	Gaurav Prabhakar Salwatkar	15
5.	Indrayani Parshuramkar	18
6.	Juhi Vijay Wadnerkar	9
7.	Ketaki Kumeriya	18
8.	Khyati Ghanshyam Patel	12
9.	Komal Gopal Thawkar	16
10.	Leena Praful Chauhan	15
11.	Minakshi Subhash Hatwar	12
12.	Namrata Vasant Rahangdale	Absent
13.	Nikita S. Katole	18
14.	Nilesh Bhanu Nayak	13
15.	Nilima Harichndra Balbudhe	18
16.	Pallavi Kashinath Lonkar	13
17.	Prachi Manoj Singh	15
18.	Prajakta Sanjay Puranik	9
19.	Prajwal Thakare	12

20.	Pratiksha Khemra jZure	Absent
21.	Priyanka Babulal Jangid	7
22.	Rashmi Rewaram Nanhe	13
23.	Roshan Sanjay Bhalshankar	14
24.	Rupal Dewaji Gumgaonkar	20
25.	Sagar Mahipal Motghare	19
26.	Sameer Anil Deshmukh	10
27.	Sampada Avinash Salphale	18
28.	Sana Parveen Sheikh	14
29.	Shivani Pramod Pawade	20
30.	Shraddha Subodh Wasnik	15
31.	Shubham Devidas Damedhar	Absent
32.	Shubham Nandkishor Rakas	20
33.	Shweta Ravindra Dhanorkar	19
34.	Surabhi Sanjay Wasnik	17
35.	Swati Kaushlendra Mishra	18
36.	Vaibhav Sanjay Hirekhan	17
37.	Vaishnavi Vishnu Makde	10
38.	Yogita Ajit Kaushal	15



**Signature of the Teacher**



**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S. S. E. S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur.  
Session 2019-2020**

**Master of Science (M.Sc.) Semester-IV (Computer Science)  
Embedded System (Paper-III)**

**Unit Test - II**

**Time :1 Hour]**

**[Maximum Marks: 20**

**Question 1. Solve any two**

- |  |   |
|--|---|
| A. What are the service of RTOS for process management?                                | 8 |
| B. Explain window CE operating system.   | 8 |
| C. What is simulator? Explain importance of simulator for embedded system development. | 8 |
| D. Explain:  | 8 |
| i. Message queue function  |   |
| ii. Mailbox function   |   |

**Question 2. Solve any one**

- |  |   |
|--|---|
| A. Differentiate thread and processes. | 4 |
| B. Explain architecture of RT Linux.   | 4 |
| C. Explain RTOS VXWORKS in detail.     | 4 |

**Signature of the Teacher**

**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S. S. E. S. Am's Science College,  
Congress Nagar, Nagpur

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

**M. Sc. Semester – IV (Computer Science) Session 2019-20**

**Unit Test - I**

**Name of Teacher: Mr. M. T. Wanjari  
Subject: Parallel Computing (Paper-IV)**

**Date: 22/02/2020  
Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Amit Girish Paliwal	09
2.	Ankita Chandrashekar Bandhekar	10
3.	Faraz Mohammad Iqbal Sayyed	12
4.	Gaurav Prabhakar Salwatkar	10
5.	Indrayani Parshuramkar	09
6.	Juhi Vijay Wadnerkar	08
7.	Ketaki Kumeriya	07
8.	Khyati Ghanshyam Patel	14
9.	Komal Gopal Thawkar	10
10.	Leena Praful Chauhan	16
11.	Minakshi Subhash Hatwar	14
12.	Namrata Vasant Rahangdale	16
13.	Nikita S. Katole	10
14.	Nilesh Bhanu Nayak	AB
15.	Nilima Harichndra Balbudhe	10
16.	Pallavi Kashinath Lonkar	12
17.	Prachi Manoj Singh	09
18.	Prajakta Sanjay Puranik	12
19.	Prajwal Thakare	10
20.	Pratiksha Khemraj Zure	10
21.	Priyanka Babulal Jangid	06
22.	Rashmi Rewaram Nanhe	12
23.	Roshan Sanjay Bhalshankar	10
24.	Rupal Dewaji Gumgaonkar	09
25.	Sagar Mahipal Motghare	16
26.	Sameer Anil Deshmukh	13
27.	Sampada Avinash Salphale	12
28.	Sana Parveen Sheikh	10
29.	Shivani Pramod Pawade	09
30.	Shraddha Subodh Wasnik	10
31.	Shubham Devidas Damedhar	12
32.	Shubham Nandkishor Rakas	10
33.	Shweta Ravindra Dhanorkar	AB
34.	Surabhi Sanjay Wasnik	10
35.	Swati Kaushlendra Mishra	16
36.	Vaibhav Sanjay Hirekhan	08
37.	Vaishnavi Vishnu Makde	12
38.	Yogita Ajit Kaushal	09



Signature of the Teacher



Head  
Department of Computer Science



Professor & Head  
Department of Computer Science  
S.S.E.S. Am't's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-20  
Master of Science (M. Sc.) Semester – IV (Computer Science)  
Parallel Computing (Paper-IV)  
Unit Test – I**

**Time: 1 Hour]**

**[Maximum Marks: 20**

**Q. 1 (Solve any two question)**

- |  |   |
|--|---|
| A. Discuss cache coherence in multiprocessor system.       | 8 |
| B. Explain the network topologies in parallel computing.   | 8 |
| C. What are the characteristics of Tasks and Interactions? | 8 |
| D. Explain One-to-All Broadcast and All-to-One reduction.  | 8 |

**Q. 2 (Solve any one question)**

- |  |   |
|--|---|
| A. Write notes on scatter and gather.                          | 4 |
| B. Discuss the motivating parallelism.                         | 4 |
| C. How works routing mechanisms for inter connection networks. | 4 |

**Signature of the Teacher**

**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am't's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Department of Computer Science  
M. Sc. Semester – IV (Computer Science) Session 2019-20  
Unit Test - II**

**Name of Teacher: Mr. M. T. Wanjari**

**Date: 14/03/2020**

**Subject: Parallel Computing (Paper-IV)**

**Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Amit Girish Paliwal	10

2.	Ankita Chandrashekhar Bandhekar	AB
3.	Faraz Mohammad Iqbal Sayyed	12
4.	Gaurav Prabhakar Salwatkar	08
5.	Indrayani Parshuramkar	08
6.	Juhi Vijay Wadnerkar	19
7.	Ketaki Kumeriya	09
8.	Khyati Ghanshyam Patel	15
9.	Komal Gopal Thawkar	12
10.	Leena Praful Chauhan	17
11.	Minakshi Subhash Hatwar	13
12.	Namrata Vasant Rahangdale	15
13.	Nikita S. Katole	11
14.	Nilesh Bhanu Nayak	09
15.	Nilima Harichndra Balbudhe	AB
16.	Pallavi Kashinath Lonkar	13
17.	Prachi Manoj Singh	10
18.	Prajakta Sanjay Puranik	10
19.	Prajwal Thakare	09
20.	Pratiksha Khemraj Zure	11
21.	Priyanka Babulal Jangid	AB
22.	Rashmi Rewaram Nanhe	13
23.	Roshan Sanjay Bhalshankar	11
24.	Rupal Dewaji Gumgaonkar	10
25.	Sagar Mahipal Motghare	17
26.	Sameer Anil Deshmukh	12
27.	Sampada Avinash Salphale	10
28.	Sana Parveen Sheikh	12
29.	Shivani Pramod Pawade	12
30.	Shraddha Subodh Wasnik	08
31.	Shubham Devidas Damedhar	10
32.	Shubham Nandkishor Rakas	09
33.	Shweta Ravindra Dhanorkar	10
34.	Surabhi Sanjay Wasnik	11
35.	Swati Kaushlendra Mishra	17
36.	Vaibhav Sanjay Hirekhan	10
37.	Vaishnavi Vishnu Makde	13
38.	Yogita Ajit Kaushal	AB

**Signature of the Teacher**

**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Session 2019-20**

**Master of Science (M. Sc.) Semester – IV (Computer Science)  
Parallel Computing (Paper-IV)  
Unit Test – II**

**Time: 1 Hour]**

**[Maximum Marks: 20**

**Q. 1 (Solve any two question)**

- |   |   |
|---|---|
| A. What is the performance metrics for parallel systems?              | 8 |
| B. Explain the building blocks send and receive operations.           | 8 |
| C. What are the overlapping communication with computation?           | 8 |
| D. Explain OpenMP a standard for directive based parallel programming | 8 |

**Q. 2 (Solve any one question)**

- |   |   |
|---|---|
| A. Write notes on asymptotic analysis of parallel programs. | 4 |
| B. What is the effect of granularity on performance?        | 4 |
| C. Discuss the thread cancellation.                         | 4 |

**Signature of the Teacher**

**Head  
Department of Computer Science**



Professor & Head  
Department of Computer Science  
S.S.E.S. Am's Science College,  
Congress Nagar, Nagpur