

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – I (Computer Science) Session 2022-23
Unit Test - I

Name of Teacher: Ms. M. S. Hingle

Date: 07/10/2022

Subject: Discrete Mathematical Structure (Paper I)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	17
2.	Aishwini Arun Naranje	12
3.	Amisha Sanjay Devtale	16
4.	Aniket Ashok Jadhao	17
5.	Anjali Pradeep Fender	Absent
6.	Ankush Shambharkar	16
7.	Ashish Sudhir Waikar	16
8.	Divyani Sureshrao Chandore	13
9.	Hemlata Sahebrao Sawankar	13
10.	Kanchan Wasudeo Gondhale	16
11.	Leena Siddharth Dupare	Absent
12.	Manisha Mahadeorao Ingole	12
13.	Mrunali Prakash Vaidya	11
14.	Nikhil Manoj Gharat	16
15.	Nikhil Sjanlal Gupta	13
16.	Nikhil Vanraj Tembhone	17
17.	Payal Ganesh Shahu	12
18.	Payal Yashwant Sharnagat	13
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22.	Preeti Ajaykumar Rai	17
23.	Rashmi Chandrashekhar Ashtankar	Absent
24.	Rasika Ganesh Taralekar	14
25.	Riya Ajay Rai	13
26.	Rutuja Vinod Chavhan	17
27.	Sakshi Prakash Manapure	12
28.	Samruddhi Sanjay Telang	13
29.	Sarang Ishwar Dhanorkar	12
30.	Saumya Prabhakar Dakhole	13
31.	Sejal Ranjendra Raut	16
32.	Shubham Arunrao Bamode	18
33.	Shweta Suresh Vaidya	17
34.	Simaran kadbe	Absent

35.	Sparsh Vijay Gajbhiye	18
36.	Swati Dilip Isad	16
37.	Tanu Subhash Sangole	Absent



Signature of the Teacher



**Head
Department of Computer Science**

Professor & Head
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S. S. E. S. Am's Science College,
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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M.Sc. Semester-I (Computer Science) Session 2022-2023
Discrete Mathematical Structure (Paper I)
Unit Test - I**

Time: 1 hour]

[Maximum Marks:20

Q1. Answer the Following (Any 2)

- | | |
|--|---|
| A. Explain all Normal Forms? | 8 |
| B. Explain the pigeonhole Principle ? | 8 |
| C. Explain Logical proposition & Logical operations? | 8 |
| D. Explain the Warshall's Algorithms with example ? | 8 |

Q2. Answer the Following (Any 1)

- | | |
|---|---|
| A. Write the operations on sets with example? | 4 |
| B. Write the Recurrence Relations? | 4 |
| C. Write the Equivalence Relations? | 4 |



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Shri Shivaji Education Society Amravati's
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Department of Computer Science
M. Sc. Semester – I (Computer Science) Session 2022-23
Unit Test - II

Name of Teacher: Ms. M. S. Hingle

Date: 09/12/2022

Subject: Discrete Mathematical Structure (Paper I)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	16
2.	Aishwini Arun Naranje	Absent
3.	Amisha Sanjay Devtale	12
4.	Aniket Ashok Jadhao	11
5.	Anjali Pradeep Fender	16
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18.	Payal Yashwant Sharnagat	12
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29.	Sarang Ishwar Dhanorkar	Absent
30.	Saumya Prabhakar Dakhole	18
31.	Sejal Ranjendra Raut	17
32.	Shubham Arunrao Bambode	Absent
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Department of Computer Science
M.Sc. Semester-I (Computer Science) Session 2022-2023
Discrete Mathematical Structure (Paper I)
Unit Test II**

Time: 1 hour]

[Maximum Marks: 20

Q1. Answer the Following (Any 2)

- | | |
|---|---|
| A. Explain Hamiltonian Paths and Circuits ? | 8 |
| B. Explain Semigroups & Groups? | 8 |
| C. Explain the Lattices Finite theorem? | 8 |
| D. Explain Undirected Tree? | 8 |

Q2. Answer the Following (Any 1)

- | | |
|---|---|
| A. Explain Binary Operations in detail? | 4 |
| B. What is minimal spanning tree? | 4 |
| C. Explain the state machine? | 4 |



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Department of Computer Science
M. Sc. Semester – I (Computer Science) Session 2022-23
Unit Test - I

Name of Teacher: Mr. M. T. Wanjari

Date: 03/10/2022

Subject: Programming in Java (Paper-II)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	12
2.	Aishwini Arun Naranje	AB
3.	Amisha Sanjay Devtale	06
4.	Aniket Ashok Jadhao	05
5.	Anjali Pradeep Fender	07
6.	Ankush Shambharkar	08
7.	Ashish Sudhir Waikar	12
8.	Divyani Sureshrao Chandore	09
9.	Hemlata Sahebrao Sawankar	10
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12.	Manisha Mahadeora Ingole	09
13.	Mrunali Prakash Vaidya	AB
14.	Nikhil Manoj Gharat	08
15.	Nikhil Sjanlal Gupta	04
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26.	Rutuja Vinod Chavhan	07
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30.	Saumya Prabhakar Dakhole	06

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32.	Shubham Arunrao Bambode	04
33.	Shweta Suresh Vaidya	10
34.	Simaran Kadbe	16
35.	Sparsh Vijay Gajbhiye	15
36.	Swati Dilip Isad	13
37.	Tanu SubhashS angole	12



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Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Session 2022-23

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. Describe the Primitive and Non-primitive data types with suitable example. 8

B. What is virtual function? Can we call a virtual function in a constructor?

Explain. 8

C. How many types of inheritance does java support without interfaces? Explain with sample program. 8

D. Explain the life cycle of thread. 8

Q. 2 (Solve any one question)

A. Define an array. Why are they needed? 4

B. Explain java Features in details. 4

C. What is controls statements? 4



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Department of Computer Science
M. Sc. Semester – I (Computer Science) Session 2022-23
Unit Test - II

Name of Teacher: Mr. M. T. Wanjari

Date: 15/10/2022

Subject: Programming in Java (Paper-II)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	13
2.	Aishwini Arun Naranje	05
3.	Amisha Sanjay Devtale	08
4.	Aniket Ashok Jadhao	08
5.	Anjali Pradeep Fender	08
6.	Ankush Shambharkar	09
7.	Ashish Sudhir Waikar	14
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18.	Payal Yashwant Sharnagat	09
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37.	Tanu SubhashS angole	10



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**Shri Shivaji Education Society Amravati's
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Session 2022-23
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. Explain the method invocation in Java using RMI. | 8 |
| B. What is URL? Write a program to explain usage of URL class. | 8 |
| C. Explain the concept of cookies. | 8 |
| D. Explain execution routine of Java Beans. | 8 |

Q. 2 (Solve any one question)

- | | |
|--|---|
| A. What is the difference between Java Bean and EJB? | 4 |
| B. Define i) URL ii) Proxy Server. | 4 |
| C. Explain TCP/IP server socket? | 4 |



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Department of Computer Science
M. Sc. Semester – I (Computer Science) Session 2022-23
Unit Test - I

Name of Teacher: Mrs. Swati S. Khandalkar

Date: 07/10/2022

Subject: Digital Electronics and Microprocessor (Paper-III)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	17
2.	Aishwini Arun Naranje	7
3.	Amisha Sanjay Devtale	14
4.	Aniket Ashok Jadhao	7
5.	Anjali Pradeep Fender	7
6.	Ankush Shambharkar	Absent
7.	Ashish Sudhir Waikar	17
8.	Divyani Sureshrao Chandore	8
9.	Hemlata Sahebrao Sawankar	10
10.	Kanchan Wasudeo Gondhale	13
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12.	Manisha Mahadeorao Ingole	Absent
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32.	Shubham Arunrao Bambode	10
33.	Shweta Suresh Vaidya	8
34.	Simaran Kadbe	Absent
35.	Sparsh Vijay Gajbhiye	17
36.	Swati Dilip Isad	13
37.	Tanu SubhashS angole	9



Signature of the Teacher



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Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Academic Session 2022-2023**

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. What is Gray Code? Explain the method of converting Gray Code to Binary, and binary to Gray Code with suitable examples. 8
- B. State and prove Demorgan's laws. 8
- C. What are universal gates. Construct a logic circuit using NAND gates only for the expression $x = A \cdot (B + C)$. 8
- D. What significance of expressing the logic expression using POS? Explain with example. 8

Question 2. Solve any one

- A. What is a universal gate? Give examples. Realize the basic gates with any one universal gate. 4
- B. Discuss the differences between a demultiplexer and a decoder. 4
- C. What is parallel adder? 4



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Shri Shivaji Education Society Amravati's
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Department of Computer Science
M. Sc. Semester – I (Computer Science) Session 2022-23
Unit Test - II

Name of Teacher: Mrs. S. S. Khandalkar

Date: 03/12/2022

Subject: Digital Electronics and Microprocessor (Paper-III)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	19
2.	Aishwini Arun Naranje	Absent
3.	Amisha Sanjay Devtale	16
4.	Aniket Ashok Jadhao	8
5.	Anjali Pradeep Fender	17
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17.	Payal Ganesh Shahu	20
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21.	Pratik Vijay Pahade	19
22.	Preeti Ajaykumar Rai	20
23.	Rashmi Chandrashekhar Ashtankar	18
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Academic Session 2022-2023

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

- A. What is a flip-flop? What is the difference between a latch and a flip-flop? List out the application of flip-flop. 8
- B. What is counter? What are the different types of counters? Draw the diagram of 4 bit ripple counter and explain its working with timing diagrams. 8
- C. Explain following instructions of 8086 up. 8
- REP
 - CMPS
 - SHL
 - LDS
 - XCHG
- D. Describe the operation of parallel in parallel out (PIPO) shift register. 8

Question 2. Solve any one

- A. Write short note on the following: Johnson counter. 4
- B. Explain the construction and working of Up-Down Counter. 4
- C. List the various registers provided in 8086 microprocessor. 4



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Department of Computer Science
M. Sc. Semester – I (Computer Science) Session 2022-23
Unit Test - I

Name of Teacher: Mrs. Aarya A. Chandekar

Date: 13/10/2022

Subject: Advanced DBMS and Administration (Paper-IV)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	14
2.	Aishwini Arun Naranje	Absent
3.	Amisha Sanjay Devtale	14
4.	Aniket Ashok Jadhao	Absent
5.	Anjali Pradeep Fender	17
6.	Ankush Shambharkar	Absent
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Ahandekar.

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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Academic Session 2022-2023
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. What is fill factor ? Explain in detail. 8
- C. What is multiple granularity ? Explain the locking modes in multiple granularity. 8
- D. What is timestamp based protocol ? Explain advantages and disadvantages of timestamp protocol. 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

Ahandekar.

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Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – I (Computer Science) Session 2022-23
Unit Test - II

Name of Teacher: Mrs. Aarya A. Chandekar

Date: 05/12/2022

Subject: Advanced DBMS and Administration (Paper-IV)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	16
2.	Aishwini Arun Naranje	16
3.	Amisha Sanjay Devtale	13
4.	Aniket Ashok Jadhao	09
5.	Anjali Pradeep Fender	13
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Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Academic Session 2022-2023

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. 8
- B. Explain static and dynamic data dictionary views. 8
- C. What are the contents of trace file and alert log file. 8
- D. Explain. How to tune an application. 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

Ahandekar

Signature of the Teacher

[Signature]

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 2022-23
Unit Test – I

Name of Teacher: Ms. A. M. Rahangdale

Date: 16/09/2022

Subject: Data Communication & Network (Paper I)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	17
2.	AfreenFayyaz Ahmad	Absent
3.	Akansha Ghanshyam Charde	18
4.	Aleena Azam Ansari	17
5.	Apurva Anil Tiwari	12
6.	Apurva Mohan Pande	16
7.	Ashwini Surendra Dhenge	17
8.	Chitra Namdeo Bangadkar	Absent
9.	Divya Vilas Kawale	18
10.	Dolly Rajesh Waghmare	17
11.	Ganesh Dhondu Pandhare	Absent
12.	Harshal Sunil Nehare	17
13.	Kartik Rustam Borkar	13
14.	Krutika Pandurang Dekate	17
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20.	Nikhil SudhakarMohurle	17
21.	Payal Bhimrao Atram	13
22.	Pragati Hiranman Charde	17
23.	Praju Arunrao Bhagat	16
24.	Prakash Deepak Patil	13
25.	Pranjali Ramesh Bhoyar	17
26.	Pratiksha Shivram Date	12
27.	Priya Sumesh Sharma	Absent
28.	Ritika Madan Ganvir	16
29.	Ruchi Rajesh Dwivedi	Absent
30.	Sakshi Ramdas Bawankule	13
31.	Samruddhi Anil Lokhande	17

32.	Sanket Sharad Hadge	14
33.	Shraddha Ramcharansingh Chandel	13
34.	Smita Purushottam Khorgade	16
35.	Suraj Wasudeo Harode	18
36.	Swapnil Somnath Urkude	17
37.	Trupti Gunsagar Somkuwar	13
38.	Trupti Yogesh Padole	16
39.	Vaishnavi Sanjay Shivhare	18
40.	Vaishnavi Vishnu Shende	13
41.	Vidya Vasataji Waghade	15
42.	Yachana Yashwantrao Bisane	12
43.	Yashashree Devanand Masurkar	17



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Head
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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 2022-2023
Data Communication & Network (Paper I)
Unit Test - I**

Time: 1 hour]

[Maximum Marks: 20

Q1. Answer the Following (Any 2)

- A. Discuss the design issues in data link layer. Explain data link protocol. 8
- B. What is cryptography? Explain its mode of operation. 8
- C. Explain OSI reference model. 8
- D. Design issues of presentation layer. 8

Q2. Answer the Following (Any 1)

- A. Short note on sliding window protocol. 4
- B. Explain RPC in detail. 4
- C. Discuss design issue and remote procedure in session layer. 4



Signature of the Teacher



Head
Department of Computer Science

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – III (Computer Science) Session 2022-23
Unit Test - II

Name of Teacher: Ms. A. M. Rahangdale

Date: 16/12/2022

Subject: Data Communication & Network (Paper I)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	17
2.	AfreenFayyaz Ahmad	13
3.	Akansha Ghanshyam Charde	17
4.	Aleena Azam Ansari	16
5.	Apurva Anil Tiwari	13
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15.	Kunal Vaibhav Chimurkar	Absent
16.	Mayur Mukinda Borate	18
17.	Neetu Uma Shankar	17
18.	Neha Devendra Yadav	Absent
19.	Nikhil Parasram Bhendarkar	17
20.	Nikhil SudhakarMohurle	13
21.	Payal Bhimrao Atram	17
22.	Pragati Hiranman Charde	12
23.	Praju Arunrao Bhagat	13
24.	Prakash Deepak Patil	12
25.	Pranjali Ramesh Bhoyar	16
26.	Pratiksha Shivram Date	Absent
27.	Priya Sumesh Sharma	13

28.	Ritika Madan Ganvir	17
29.	Ruchi Rajesh Dwivedi	14
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36.	Swapnil Somnath Urkude	18
37.	Trupti Gunsagar Somkuwar	15
38.	Trupti Yogesh Padole	14
39.	Vaishnavi Sanjay Shivhare	16
40.	Vaishnavi Vishnu Shende	14
41.	Vidya Vasataji Waghade	14
42.	Yachana Yashwantrao Bisane	16
43.	Yashashree Devanand Masurkar	15



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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 2023-2024
Data Communication & Network (Paper I)
Unit Test II**

Time: 1 hour]

[Marks: 20

Q1. Answer the Following (Any 2)

- A. What are authentication?
Discuss password-based and address-based authentication. 8
- B. Explain cipher block modes of operations. 8
- C. What is packet filtering? Explain the use of packet filtering. 8
- D. What are TCP and UDP? Explain the TCP connection management. 8

Q2. Answer the Following (Any 1)

- A. Write a short note on:- 4
a) Certificate b) Firewalls
- B. Why firewall are used? 4

C. Discuss the monitoring and management of Email security.

4



Signature of the Teacher



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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 2022-23
Unit Test - I**

Name of Teacher: Dr. M. T. Wanjari

Date: 27/08/2022

Subject: Software Engineering (Paper II)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	16
2.	AfreenFayyaz Ahmad	AB
3.	Akansha Ghanshyam Charde	AB
4.	Aleena Azam Ansari	12
5.	Apurva Anil Tiwari	14
6.	Apurva Mohan Pande	08
7.	Ashwini Surendra Dhenge	06
8.	Chitra Namdeo Bangadkar	08
9.	Divya Vilas Kawale	06
10.	Dolly Rajesh Waghmare	09
11.	Ganesh Dhondu Pandhare	07
12.	Harshal Sunil Nehare	09
13.	Kartik Rustam Borkar	10
14.	Krutika Pandurang Dekate	11
15.	Kunal Vaibhav Chimurkar	10
16.	Mayur Mukinda Borate	09
17.	Neetu Uma Shankar	10
18.	Neha Devendra Yadav	12
19.	Nikhil Parasram Bhendarkar	11
20.	Nikhil SudhakarMohurle	10
21.	Payal Bhimrao Atram	12
22.	Pragati Hiranman Charde	AB

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31.	Samruddhi Anil Lokhande	09
32.	Sanket Sharad Hadge	AB
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40.	Vaishnavi Vishnu Shende	05
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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 2022-23

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. What are different roles of software engineer? Explain software myths. 8
- B. Explain waterfall model in detail. 8
- C. Write short note on modeling with UML. 8
- D. What is software requirement analysis and validation? Explain with example. 8

Q. 2 (Solve any one question)

- A. Explain user requirements. 4
B. Explain system context model. 4
C. Explain functional requirement in software engineering. 4



Signature of the Teacher



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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 2022-23

Unit Test - II

**Name of Teacher: Dr. M. T. Wanjari
Subject: Software Engineering (Paper II)**

**Date: 12/12/2022
Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	12
2.	AfreenFayyaz Ahmad	09
3.	Akansha Ghanshyam Charde	06
4.	Aleena Azam Ansari	11
5.	Apurva Anil Tiwari	16
6.	Apurva Mohan Pande	10
7.	Ashwini Surendra Dhenge	08
8.	Chitra Namdeo Bangadkar	06
9.	Divya Vilas Kawale	10
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39.	Vaishnavi Sanjay Shivhare	12
40.	Vaishnavi Vishnu Shende	06
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43.	Yashashree Devanand Masurkar	05



Signature of the Teacher



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S. S. E. S. Am's Science College,
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Session 2022-23**

**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 validation testing and system testing. | 8 |
| B. Explain Black-box and White-box testing in detail. | 8 |
| C. Explain quality standards for ISO 9000. | 8 |
| D. Explain software reviews in detail. | 8 |

Q. 2 (Solve any one question)

- A. What is design evolution? 4
B. Explain RMMM plan. 4
C. What is Risk Projection? 4



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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 2022-23
Unit Test - I**

**Name of Teacher: Mrs. S. S. Khandalkar
Subject: Neural Network (Paper III)**

**Date: 26/09/2022
Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	17
2.	AfreenFayyaz Ahmad	19
3.	Akansha Ghanshyam Charde	18
4.	Aleena Azam Ansari	20
5.	Apurva Anil Tiwari	10
6.	Apurva Mohan Pande	17
7.	Ashwini Surendra Dhenge	12
8.	Chitra Namdeo Bangadkar	7
9.	Divya Vilas Kawale	14
10.	Dolly Rajesh Waghmare	16
11.	Ganesh Dhondu Pandhare	17
12.	Harshal Sunil Nehare	12
13.	Kartik Rustam Borkar	15
14.	Krutika Pandurang Dekate	Absent
15.	Kunal Vaibhav Chimurkar	13
16.	Mayur Mukinda Borate	7
17.	Neetu Uma Shankar	13
18.	Neha Devendra Yadav	20
19.	Nikhil Parasram Bhendarkar	16
20.	Nikhil SudhakarMohurle	14
21.	Payal Bhimrao Atram	Absent

22.	Pragati Hiranman Charde	20
23.	Praju Arunrao Bhagat	12
24.	Prakash Deepak Patil	19
25.	Pranjali Ramesh Bhojar	10
26.	Pratiksha Shivram Date	18
27.	Priya Sumesh Sharma	14
28.	Ritika Madan Ganvir	13
29.	Ruchi Rajesh Dwivedi	18
30.	Sakshi Ramdas Bawankule	10
31.	Samruddhi Anil Lokhande	7
32.	Sanket Sharad Hodge	Absent
33.	Shraddha Ramcharansingh Chandel	19
34.	Smita Purushottam Khorgade	12
35.	Suraj Wasudeo Harode	16
36.	Swapnil Somnath Urkude	18
37.	Trupti Gunsagar Somkuwar	8
38.	Trupti Yogesh Padole	20
39.	Vaishnavi Sanjay Shivhare	16
40.	Vaishnavi Vishnu Shende	7
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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 2022-2023
Master of Science(M.Sc.) (Computer Science) (Semester-III)
Neural Network-III
Unit Test - I**

Time :1 Hour]

[Maximum Marks 20

Question 1. Solve any two

- A. What is an Artificial Neuron? Draw a neat labeled diagram showing the model of an artificial neuron. Explain the different classes of neural network architectures. 8
- B. Explain with an example the following terms: 8
- i. Habituation
- ii. Sensitization
- C. Explain linear separable and non-separable patterns. 8
- D. What is learning? Differentiate between Supervised and unsupervised Learning. 8

Question 2. Solve any one

- A. List some applications of ANNs. 4
- B. Explain briefly Multilayer Network. 4
- C. Explain the application of LMS to Noise Cancellation. 4



Signature of the Teacher



**Head
Department of Computer Science**

Professor & Head
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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 2022-23
Unit Test - II**

**Name of Teacher: Mrs. S. S. Khandalkar
Subject: Neural Network (Paper III)**

**Date: 23/11/2022
Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	16
2.	AfreenFayyaz Ahmad	12
3.	Akansha Ghanshyam Charde	11
4.	Aleena Azam Ansari	18
5.	Apurva Anil Tiwari	20

6.	Apurva Mohan Pande	19
7.	Ashwini Surendra Dhenge	Absent
8.	Chitra Namdeo Bangadkar	15
9.	Divya Vilas Kawale	14
10.	Dolly Rajesh Waghmare	14
11.	Ganesh Dhondu Pandhare	16
12.	Harshal Sunil Nehare	18
13.	Kartik Rustam Borkar	10
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16.	Mayur Mukinda Borate	10
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18.	Neha Devendra Yadav	11
19.	Nikhil Parasram Bhendarkar	16
20.	Nikhil Sudhakar Mohurle	Absent
21.	Payal Bhimrao Atram	13
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29.	Ruchi Rajesh Dwivedi	15
30.	Sakshi Ramdas Bawankule	15
31.	Samruddhi Anil Lokhande	16
32.	Sanket Sharad Hadge	13
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39.	Vaishnavi Sanjay Shivhare	20
40.	Vaishnavi Vishnu Shende	9
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Signature of the Teacher



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S. S. E. S. Am's Science College,
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Academic Session 2022-2023
Master of Science(M.Sc.) (Computer Science) (Semester-III)
Neural Network (Paper-III)
Unit Test - II**

Time :1 Hour

Total Marks 20

Question 1. Solve any two

- A. Discuss Backpropagation Learning Algorithm for a Multilayer network.8
- B. Explain Bayes Theorem in detail.8
- C. What do you understand by the terms:8
 - i. Gaussian Distributed Data
 - ii. Bernoulli Distributed Data
- D. What do you understand by the terms:8
 - i. Tower and Pyramid Algorithms
 - ii. Cascade Correlation Algorithm

Question 2. Solve any one

- A. Explain the application of Feedforward neural networks.4
- B. Explain the Interpreting Neuron Signals as Probabilities.4
- C. Explain the application of Image Classification.4



Signature of the Teacher



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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 2022-23
Unit Test - I**

**Name of Teacher: Mrs. A. A. Chandekar
Subject: Mobile Computing (Paper IV)**

**Date: 20/09/2022
Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	14
2.	AfreenFayyaz Ahmad	Absent
3.	Akansha Ghanshyam Charde	14
4.	Aleena Azam Ansari	Absent
5.	Apurva Anil Tiwari	17
6.	Apurva Mohan Pande	Absent
7.	Ashwini Surendra Dhenge	17
8.	Chitra Namdeo Bangadkar	13
9.	Divya Vilas Kawale	Absent
10.	Dolly Rajesh Waghmare	09
11.	Ganesh Dhondu Pandhare	16
12.	Harshal Sunil Nehare	16
13.	Kartik Rustam Borkar	Absent
14.	Krutika Pandurang Dekate	Absent
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18.	Neha Devendra Yadav	13
19.	Nikhil Parasram Bhendarkar	13
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Ahandekar

Signature of the Teacher

[Signature]

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Department of Computer Science

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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 2022-2023
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. Explain general packet radio service. | 8 |
| B. Explain mobile computing architecture. | 8 |
| C. Discuss the various access mechanisms in Medium Access Control. | 8 |
| D. Explain methods of TCP layer transmission for mobile networks. | 8 |

Q2. Answer the Following (Any 1)

- | | |
|--|---|
| A. How Indirect TCP Works? Explain | 4 |
| B. Explain calling handover in mobile communication. | 4 |
| C. What is mobile IP ? Explain. | 4 |

Ahandekar

Signature of the Teacher

[Signature]

Head

Department of Computer Science

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – III (Computer Science) Session 2022-23
Unit Test - II**

**Name of Teacher: Mrs. A. A. Chandekar
Subject: Mobile Computing (Paper IV)**

**Date: 07/12/2022
Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	14
2.	AfreenFayyaz Ahmad	Absent
3.	Akansha Ghanshyam Charde	14
4.	Aleena Azam Ansari	Absent
5.	Apurva Anil Tiwari	17
6.	Apurva Mohan Pande	Absent
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15.	Kunal Vaibhav Chimurkar	13
16.	Mayur Mukinda Borate	Absent
17.	Neetu Uma Shankar	09
18.	Neha Devendra Yadav	14
19.	Nikhil Parasram Bhendarkar	Absent
20.	Nikhil SudhakarMohurle	14
21.	Payal Bhimrao Atram	Absent
22.	Pragati Hiranman Charde	14
23.	Praju Arunrao Bhagat	Absent
24.	Prakash Deepak Patil	17
25.	Pranjali Ramesh Bhoyar	Absent
26.	Pratiksha Shivram Date	17
27.	Priya Sumesh Sharma	13
28.	Ritika Madan Ganvir	18
29.	Ruchi Rajesh Dwivedi	12

30.	Sakshi Ramdas Bawankule	14
31.	Samruddhi Anil Lokhande	Absent
32.	Sanket Sharad Hadge	14
33.	Shraddha Ramcharansingh Chandel	Absent
34.	Smita Purushottam Khorgade	17
35.	Suraj Wasudeo Harode	Absent
36.	Swapnil Somnath Urkude	13
37.	Trupti Gunsagar Somkuwar	13
38.	Trupti Yogesh Padole	Absent
39.	Vaishnavi Sanjay Shivhare	19
40.	Vaishnavi Vishnu Shende	16
41.	Vidya Vasataji Waghade	16
42.	Yachana Yashwantrao Bisane	14
43.	Yashashree Devanand Masurkar	17

Ahandekar

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 2022-2023
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. Explain data caching and its applications. How does it hasten the speed of transaction. 8
- B. Write a note on 'Client-Server computing and Adaption'. 8
- C. Explain architecture of Windows CE.NET. 8
- D. Explain architecture and working of J2ME. 8

Q2. Answer the Following (Any 1)

- D. Discuss Mobile Adhoc Network. 4
- E. Write short notes on : (i) Portals (ii) Gateways. 4
- F. Write note on JavaCard. 4



Signature of the Teacher



Head
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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 2022-23
Unit Test - I**

Name of Teacher: Ms. M. S. Hingle

Date: 14/02/2023

Subject: Windows Programming using VC++ (Paper I)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	18
2.	Aishwini Arun Naranje	17
3.	Amisha Sanjay Devtale	Absent
4.	Aniket Ashok Jadhao	13
5.	Anjali Pradeep Fender	12
6.	Ankush Shambharkar	15
7.	Ashish Sudhir Waikar	16
8.	Divyani Suresh Rao Chandore	12
9.	Hemlata Sahebrao Sawankar	10
10.	Kanchan Wasudeo Gondhale	11
11.	Leena Siddharth Dupare	14
12.	Manisha Mahadeorao Ingole	17
13.	Mrunali Prakash Vaidya	12
14.	Nikhil Manoj Gharat	14
15.	Nikhil Sjanlal Gupta	15
16.	Nikhil Vanraj Tembhurne	18
17.	Payal Ganesh Shahu	13
18.	Payal Yashwant Sharnagat	14
19.	Prachi Ramesh Rao Wasake	13
20.	Pranali Raju Watane	12
21.	Pratik Vijay Pahade	11
22.	Preeti Ajaykumar Rai	13
23.	Rashmi Chandrashekhar Ashtankar	15
24.	Rasika Ganesh Taralekar	18

25.	Riya Ajay Rai	17
26.	Rutuja Vinod Chavhan	Absent
27.	Sakshi Prakash Manapure	13
28.	Samruddhi Sanjay Telang	12
29.	Sarang Ishwar Dhanorkar	10
30.	Saumya Prabhakar Dakhole	16
31.	Sejal Ranjendra Raut	12
32.	Shubham Arunrao Bambode	Absent
33.	Shweta Suresh Vaidya	11
34.	Simaran Kadbe	14
35.	Sparsh Vijay Gajbhiye	17
36.	Swati Dilip Isad	14
37.	Tanu SubhashS angole	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
Academic Session 2022-2023
M.Sc. Semester-II COMPUTER SCIENCE
Paper-I (Windows Programming using VC++)
Unit Test -1**

Time: 1 Hour]

[Maximum Marks: 20

Q1. Answer the Following (Any 2)

- A. What are the GDI derived classes ? Explain the constructing and destroying of GDI. 8
- B. What is the difference between model and modeless Dialogs ? Explain with example. 8
- C. Explain the C view class and also its different uses with example. 8
- D. Explain the application Wizard to create on application process. 8

Q2. Answer the Following (Any 1)

- A. Explain Virtual Memory Management in brief. 4
- B. Write the working of separating the Document from its view 4
- C. Write short note on DLL. 4



Signature of the Teacher



Head

Department of Computer Science

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – II (Computer Science) Session 2022-23
Unit Test - II**

Name of Teacher: Ms. M. S. Hingle

Date: 28/04/2023

Subject: Windows Programming using VC++ (Paper I)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	18
2.	Aishwini Arun Naranje	17
3.	Amisha Sanjay Devtale	Absent
4.	Aniket Ashok Jadhao	13
5.	Anjali Pradeep Fender	12
6.	Ankush Shambharkar	15
7.	Ashish Sudhir Waikar	16
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16.	Nikhil Vanraj Tembhone	Absent
17.	Payal Ganesh Shahu	13
18.	Payal Yashwant Sharnagat	12
19.	Prachi Rameshrao Wasake	Absent
20.	Pranali Raju Watane	13
21.	Pratik Vijay Pahade	12
22.	Preeti Ajaykumar Rai	18
23.	Rashmi Chandrashekhar Ashtankar	17
24.	Rasika Ganesh Taralekar	Absent
25.	Riya Ajay Rai	13
26.	Rutuja Vinod Chavhan	12
27.	Sakshi Prakash Manapure	18
28.	Samruddhi Sanjay Telang	17

29.	Sarang Ishwar Dhanorkar	Absent
30.	Saumya Prabhakar Dakhole	13
31.	Sejal Ranjendra Raut	12
32.	Shubham Arunrao Bambode	Absent
33.	Shweta Suresh Vaidya	16
34.	Simaran Kadbe	12
35.	Sparsh Vijay Gajbhiye	10
36.	Swati Dilip Isad	13
37.	Tanu SubhashS angole	12



Signature of the Teacher



Head
Department of Computer Science

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

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2022-2023
M.sc. Semester-II COMPUTER SCIENCE
Paper-I (Windows Programming using VC++)
Unit Test - II**

Time: 1 Hour]

[Maximum Marks: 20

Q1. Answer the Following (Any 2)

- | | |
|--|---|
| A. Explain the ATL programming with example in details. | 8 |
| B. What are the different components of object model ? | 8 |
| C. What is Winsock ? Explain the synchronous and Asynchronous Winsock programming. | 8 |
| D. Describe the DHTML object model in brief. | 8 |

Q2. Answer the Following (Any 1)

- | | |
|---|---|
| A. What is OLEDB Template. | 4 |
| B. Explain installation steps and web application of Microsoft IIS. | 4 |
| C. Describe the OLE Interface for Active-X Document servers and containers. | 4 |



Signature of the Teacher



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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 2022-23
Unit Test - I**

Name of Teacher: Dr. M. T. Wanjari

Date: 11/04/2023

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

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	12
2.	Aishwini Arun Naranje	08
3.	Amisha Sanjay Devtale	AB
4.	Aniket Ashok Jadhao	AB
5.	Anjali Pradeep Fender	08
6.	Ankush Shambharkar	09
7.	Ashish Sudhir Waikar	10
8.	Divyani Sureshrao Chandore	08
9.	Hemlata Sahebrao Sawankar	11
10.	Kanchan Wasudeo Gondhale	14
11.	Leena Siddharth Dupare	15
12.	Manisha Mahadeorao Ingole	10
13.	Mrunali Prakash Vaidya	08
14.	Nikhil Manoj Gharat	08
15.	Nikhil Sjanlal Gupta	07
16.	Nikhil Vanraj Tembhurne	05
17.	Payal Ganesh Shahu	10
18.	Payal Yashwant Sharnagat	10
19.	Prachi Rameshrao Wasake	08
20.	Pranali Raju Watane	09
21.	Pratik Vijay Pahade	07
22.	Preeti Ajaykumar Rai	10
23.	Rashmi Chandrashekhar Ashtankar	11
24.	Rasika Ganesh Taralekar	12
25.	Riya Ajay Rai	09
26.	Rutuja Vinod Chavhan	08
27.	Sakshi Prakash Manapure	08
28.	Samruddhi Sanjay Telang	10
29.	Sarang Ishwar Dhanorkar	07
30.	Saumya Prabhakar Dakhole	AB
31.	Sejal Ranjendra Raut	09

32.	Shubham Arunrao Bambode	AB
33.	Shweta Suresh Vaidya	10
34.	Simaran Kadbe	15
35.	Sparsh Vijay Gajbhiye	16
36.	Swati Dilip Isad	10
37.	Tanu SubhashS angole	10



Signature of the Teacher



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S. S. E. S. Am's Science College,
Congress Nagar, Nagpur

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Session 2022-23

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)

- A. Construct Turing Machine that accepts
 $L = \{0^* 1^n \mid n \geq 1\}$ 8
- B. Design Turing Machine which can multiply two positive integers. 8
- C. Construct PDA that accepting the set of all strings over (a, b) with equal number of a's and b's. 8
- D. State and prove the pumping lemma for regular sets. Give the applications of pumping lemma. 8

Q. 2 (Solve any one question)

- A. Explain greibach normal form. 4
- B. Explain Chomsky hierarchy. 4
- C. What do you mean by Regular Expression? 4



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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 2022-23
Unit Test - II

Name of Teacher: Dr. M. T. Wanjari

Date: 28/04/2023

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

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	13
2.	Aishwini Arun Naranje	09
3.	Amisha Sanjay Devtale	08
4.	Aniket Ashok Jadhao	07
5.	Anjali Pradeep Fender	AB
6.	Ankush Shambharkar	07
7.	Ashish Sudhir Waikar	13
8.	Divyani Sureshrao Chandore	10
9.	Hemlata Sahebrao Sawankar	12
10.	Kanchan Wasudeo Gondhale	15
11.	Leena Siddharth Dupare	16
12.	Manisha Mahadeorao Ingole	12
13.	Mrunali Prakash Vaidya	10
14.	Nikhil Manoj Gharat	07
15.	Nikhil Sjanlal Gupta	08
16.	Nikhil Vanraj Tembhone	06
17.	Payal Ganesh Shahu	10
18.	Payal Yashwant Sharnagat	11
19.	Prachi Rameshrao Wasake	08
20.	Pranali Raju Watane	08
21.	Pratik Vijay Pahade	09
22.	Preeti Ajaykumar Rai	12
23.	Rashmi Chandrashekhar Ashtankar	13
24.	Rasika Ganesh Taralekar	11
25.	Riya Ajay Rai	12
26.	Rutuja Vinod Chavhan	08
27.	Sakshi Prakash Manapure	09
28.	Samruddhi Sanjay Telang	09
29.	Sarang Ishwar Dhanorkar	09
30.	Saumya Prabhakar Dakhole	08
31.	Sejal Ranjendra Raut	10

32.	Shubham Arunrao Bambode	08
33.	Shweta Suresh Vaidya	11
34.	Simaran Kadbe	14
35.	Sparsh Vijay Gajbhiye	15
36.	Swati Dilip Isad	08
37.	Tanu SubhashS angole	09



Signature of the Teacher



Head
Department of Computer Science

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

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Session 2022-23

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 the importance of parse tree in intermediate code generation with example. 8
- B. Explain steps in the DAG construction process. 8
- C. Perform local optimization for the assignments.
A:= B+C+D
E:= B+C+F provided A is not an alias for B or C. 8
- D. What is ambiguous grammar? Explain with example the case of ambiguous CFG? 8

Q. 2 (Solve any one question)

- A. Explain shift reduce parsing. 4
- B. Explain address descriptor. 4
- C. Explain loop optimization. 4



Signature of the Teacher



Head
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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 2022-23
Unit Test - I**

Name of Teacher: Ms. A. M. Rahangdale

Date: 21/03/2023

Subject: Computer Architecture and Organization (Paper-III) Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	18
2.	Aishwini Arun Naranje	13
3.	Amisha Sanjay Devtale	16
4.	Aniket Ashok Jadhao	13
5.	Anjali Pradeep Fender	17
6.	Ankush Shambharkar	14
7.	Ashish Sudhir Waikar	16
8.	Divyani Sureshrao Chandore	Absent
9.	Hemlata Sahebrao Sawankar	12
10.	Kanchan Wasudeo Gondhale	Absent
11.	Leena Siddharth Dupare	14
12.	Manisha Mahadeorao Ingole	13
13.	Mrunali Prakash Vaidya	16
14.	Nikhil Manoj Gharat	13
15.	Nikhil Sjanlal Gupta	Absent
16.	Nikhil Vanraj Tembhone	Absent
17.	Payal Ganesh Shahu	12
18.	Payal Yashwant Sharnagat	10
19.	Prachi Rameshrao Wasake	13
20.	Pranali Raju Watane	17
21.	Pratik Vijay Pahade	14
22.	Preeti Ajaykumar Rai	16
23.	Rashmi Chandrashekhkar Ashtankar	Absent
24.	Rasika Ganesh Taralekar	12
25.	Riya Ajay Rai	15
26.	Rutuja Vinod Chavhan	14
27.	Sakshi Prakash Manapure	13
28.	Samruddhi Sanjay Telang	16
29.	Sarang Ishwar Dhanorkar	13
30.	Saumya Prabhakar Dakhole	17
31.	Sejal Ranjendra Raut	12
32.	Shubham Arunrao Bambode	13

33.	Shweta Suresh Vaidya	12
34.	Simaran Kadbe	18
35.	Sparsh Vijay Gajbhiye	17
36.	Swati Dilip Isad	18
37.	Tanu SubhashS angole	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
M.Sc. Semester-II (Computer Science) Session 2022-2023
Computer Architecture & Organization (Paper III)
Unit Test - I**

Time: 1 hour]

[Maximum Marks: 20

Q1. Answer the Following (Any 2)

- | | |
|---|---|
| A. Explain Instruction set in in computerarchitecture? | 8 |
| B. Explain any one method of hardwired control unit design in detail. | 8 |
| C. What is hardware and software ? What are their roles
in computer design ? Explain howthey interact with each other. | 8 |
| D. What is Pipelining ? Explain its advantages. | 8 |

Q2. Answer the Following (Any 1)

- | | |
|--|---|
| A. Write short notes on execution cycle. | 4 |
| B. What is Central Processing Unit ? Explain its working in brief. | 4 |
| C. Explain the design of microprograms control unit. | 4 |



Signature of the Teacher



Head

Department of Computer Science

Professor & Head
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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 2022-23
Unit Test - II**

Name of Teacher: Ms. A. M. Rahangdale

Date: 29/03/2023

Subject: Computer Architecture and Organization (Paper-III) Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	16
2.	Aishwini Arun Naranje	Absent
3.	Amisha Sanjay Devtale	Absent
4.	Aniket Ashok Jadhao	13
5.	Anjali Pradeep Fender	17
6.	Ankush Shambharkar	Absent
7.	Ashish Sudhir Waikar	14
8.	Divyani Sureshrao Chandore	13
9.	Hemlata Sahebrao Sawankar	16
10.	Kanchan Wasudeo Gondhale	13
11.	Leena Siddharth Dupare	Absent
12.	Manisha Mahadeorao Ingole	Absent
13.	Mrunali Prakash Vaidya	17
14.	Nikhil ManojGharat	14
15.	Nikhil Sjanlal Gupta	16
16.	Nikhil Vanraj Tembhurne	Absent
17.	Payal Ganesh Shahu	12
18.	Payal Yashwant Sharnagat	16
19.	Prachi Rameshrao Wasake	13
20.	Pranali Raju Watane	17
21.	Pratik Vijay Pahade	12
22.	Preeti Ajaykumar Rai	13
23.	Rashmi Chandrashekhar Ashtankar	12
24.	Rasika Ganesh Taralekar	18
25.	Riya Ajay Rai	17
26.	Rutuja Vinod Chavhan	17
27.	Sakshi Prakash Manapure	Absent
28.	Samruddhi Sanjay Telang	14
29.	Sarang Ishwar Dhanorkar	13
30.	Saumya Prabhakar Dakhole	16
31.	Sejal Ranjendra Raut	13

32.	Shubham Arunrao Bambode	Absent
33.	Shweta Suresh Vaidya	13
34.	Simaran Kadbe	16
35.	Sparsh Vijay Gajbhiye	13
36.	Swati Dilip Isad	16
37.	Tanu SubhashS angole	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
M.Sc. Semester-II (Computer Science) Session 2022-2023
Computer Architecture & Organization (Paper III)
Unit Test - II**

Time: 1 hour]

Maximum [Marks: 20

Q1. Answer the Following (Any 2)

- | | |
|--|---|
| A. What is memory array organization ? Explain. | 8 |
| B. What is DMA ? Draw a block diagram of DMA and discuss its working in brief. Give its advantages also. | 8 |
| C. What is cache memory ? Explain. What are its advantages ? | 8 |
| D. What is the need of interfacing ? Explain in detail. | 8 |

Q2. Answer the Following (Any 1)

- | | |
|---|---|
| A. Explain memory hierarchy in detail. | 4 |
| B. Classify the memories on the basis of speed. | 4 |
| C. Explain vectored interrupt scheme in detail. | 4 |



Signature of the Teacher



Head
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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 2022-23
Unit Test - I

Name of Teacher: Mrs. S. S. Khanadalkar
Subject: Computer Graphics (Paper-IV)

Date: 29/03/2023
Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	19
2.	Aishwini Arun Naranje	18
3.	Amisha Sanjay Devtale	13
4.	Aniket Ashok Jadhao	12
5.	Anjali Pradeep Fender	16
6.	Ankush Shambharkar	20
7.	Ashish Sudhir Waikar	15
8.	Divyani Sureshrao Chandore	18
9.	Hemlata Sahebrao Sawankar	Absent
10.	Kanchan Wasudeo Gondhale	19
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13.	Mrunali Prakash Vaidya	16
14.	Nikhil ManojGharat	20
15.	Nikhil Sjanlal Gupta	13
16.	Nikhil Vanraj Tembhurne	15
17.	Payal Ganesh Shahu	7
18.	Payal Yashwant Sharnagat	Absent
19.	Prachi Rameshrao Wasake	18
20.	Pranali Raju Watane	12
21.	Pratik Vijay Pahade	20
22.	Preeti Ajaykumar Rai	20
23.	Rashmi Chandrashekhar Ashtankar	18
24.	Rasika Ganesh Taralekar	12
25.	Riya Ajay Rai	Absent
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33.	Shweta Suresh Vaidya	11
34.	Simaran Kadbe	9
35.	Sparsh Vijay Gajbhiye	10
36.	Swati Dilip Isad	Absent
37.	Tanu SubhashS angole	19



Signature of the Teacher



Head

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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 2022-2023

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

Computer Graphics-IV

Unit Test - I

Time :1 Hour

Total Marks 20

Question 1. Solve any two

- | | |
|---|---|
| A. What are Video display devices, Explain any two? | 8 |
| B. Explain DDA algorithm. | 8 |
| C. Explain in details Flat Panel Display? | 8 |
| D. Discuss in detail Ellipse generating algorithm. | 8 |

Question 2. Solve any one

- | | |
|---|---|
| D. Explain in details Color CRT Monitors? | 4 |
| E. Differentiate parallel and perspective projection. | 4 |
| F. What are the graphics software? What do you mean by coordinate representation? | 4 |



Signature of the Teacher



Head

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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 2022-23
Unit Test - II**

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

**Date: 29/03/2023
Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Achal Ashok Kale	11
2.	Aishwini Arun Naranje	10
3.	Amisha Sanjay Devtale	11
4.	Aniket Ashok Jadhao	16
5.	Anjali Pradeep Fender	20
6.	Ankush Shambharkar	20
7.	Ashish Sudhir Waikar	20
8.	Divyani Sureshrao Chandore	Absent
9.	Hemlata Sahebrao Sawankar	20
10.	Kanchan Wasudeo Gondhale	19
11.	Leena Siddharth Dupare	20
12.	Manisha Mahadeorao Ingole	10
13.	Mrunali Prakash Vaidya	12
14.	Nikhil ManojGharat	20
15.	Nikhil Sjanlal Gupta	15
16.	Nikhil Vanraj Tembhurne	19
17.	Payal Ganesh Shahu	11
18.	Payal Yashwant Sharnagat	11
19.	Prachi Rameshrao Wasake	20
20.	Pranali Raju Watane	14
21.	Pratik Vijay Pahade	14
22.	Preeti Ajaykumar Rai	15
23.	Rashmi Chandrashekhar Ashtankar	7
24.	Rasika Ganesh Taralekar	12
25.	Riya Ajay Rai	16
26.	Rutuja Vinod Chavhan	Absent
27.	Sakshi Prakash Manapure	19
28.	Samruddhi Sanjay Telang	16
29.	Sarang Ishwar Dhanorkar	13
30.	Saumya Prabhakar Dakhole	12
31.	Sejal Ranjendra Raut	Absent

32.	Shubham Arunrao Bambode	10
33.	Shweta Suresh Vaidya	11
34.	Simaran Kadbe	15
35.	Sparsh Vijay Gajbhiye	8
36.	Swati Dilip Isad	15
37.	Tanu SubhashS angole	20



Signature of the Teacher



Head

Department of Computer Science

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

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

Academic Session 2022-2023

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

Computer Graphics-IV

Unit Test - II

Time :1 Hour

Total Marks 20

Question 1. Solve any two

- | | |
|--|---|
| A. Explain Cohen-Sutherland line clipping algorithm. | 8 |
| B. Explain the conversion of CMY to RGB representation. | 8 |
| C. What are transformations? Explain 2-D Transformations of an object. | 8 |
| D. Explain Fractal generation procedure in detail. | 8 |

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

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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 2022-23
Unit Test - I

Name of Teacher: Mrs. A. A. Chandekar
Subject: Dat Mining (Paper-I)

Date: 16/02/2023
Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	15
2.	AfreenFayyaz Ahmad	11
3.	Akansha Ghanshyam Charde	11
4.	Aleena Azam Ansari	09
5.	Apurva Anil Tiwari	14
6.	Apurva Mohan Pande	09
7.	Ashwini Surendra Dhenge	14
8.	Chitra Namdeo Bangadkar	14
9.	Divya Vilas Kawale	13
10.	Dolly Rajesh Waghmare	14
11.	Ganesh Dhondu Pandhare	Absent
12.	Harshal Sunil Nehare	11
13.	Kartik Rustam Borkar	12
14.	Krutika Pandurang Dekate	10
15.	Kunal Vaibhav Chimurkar	16
16.	Mayur Mukinda Borate	11
17.	Neetu Uma Shankar	09
18.	Neha Devendra Yadav	14
19.	Nikhil Parasram Bhendarkar	09
20.	Nikhil SudhakarMohurle	14
21.	Payal Bhimrao Atram	14
22.	Pragati Hiranman Charde	13
23.	Praju Arunrao Bhagat	14
24.	Prakash Deepak Patil	Absent
25.	Pranjali Ramesh Bhoyar	11
26.	Pratiksha Shivram Date	12
27.	Priya Sumesh Sharma	10
28.	Ritika Madan Ganvir	16
29.	Ruchi Rajesh Dwivedi	11
30.	Sakshi Ramdas Bawankule	09
31.	Samruddhi Anil Lokhande	14

32.	Sanket Sharad Hadge	09
33.	Shraddha Ramcharansingh Chandel	14
34.	Smita Purushottam Khorgade	14
35.	Suraj Wasudeo Harode	13
36.	Swapnil Somnath Urkude	14
37.	Trupti Gunsagar Somkuwar	Absent
38.	Trupti Yogesh Padole	11
39.	Vaishnavi Sanjay Shिवhare	12
40.	Vaishnavi Vishnu Shende	10
41.	Vidya Vasataji Waghade	16
42.	Yachana Yashwantrao Bisane	11
43.	Yashashree Devanand Masurkar	09

Ahandekar.

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S. S. E. S. Am's Science College,
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's
Science College , Congress Nagar, Nagpur
Academic Session 2022-2023**

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. What are the tasks of data mining ? Discuss in short. | 8 |
| B. Explain dimensionality reduction with one example. | 8 |
| C. Explain Data Exploration Techniques. | 8 |
| D. What are the different measures of location required for data mining ? | 8 |

Q2. Answer the Following (Any 1)

- | | |
|---------------------------------------|---|
| A. Explain Regression in detail. | 4 |
| B. What is frequency and mode ? | 4 |
| C. Explain measures of Node Impurity. | 4 |

Ahandekar.

Signature of the Teacher



Head

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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 2022-23
Unit Test - II

Name of Teacher: Mrs. A. A. Chandekar
Subject: Dat Mining (Paper-I)

Date: 11/04/2023
Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	16
2.	AfreenFayyaz Ahmad	12
3.	Akansha Ghanshyam Charde	11
4.	Aleena Azam Ansari	09
5.	Apurva Anil Tiwari	14
6.	Apurva Mohan Pande	09
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14.	Krutika Pandurang Dekate	10
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17.	Neetu Uma Shankar	09
18.	Neha Devendra Yadav	10
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20.	Nikhil SudhakarMohurle	11
21.	Payal Bhimrao Atram	09
22.	Pragati Hiranman Charde	14
23.	Praju Arunrao Bhagat	09
24.	Prakash Deepak Patil	14
25.	Pranjali Ramesh Bhoyar	14
26.	Pratiksha Shivram Date	13
27.	Priya Sumesh Sharma	14
28.	Ritika Madan Ganvir	Absent
29.	Ruchi Rajesh Dwivedi	11
30.	Sakshi Ramdas Bawankule	12
31.	Samruddhi Anil Lokhande	10
32.	Sanket Sharad Hadge	16

33.	Shraddha Ramcharansingh Chandel	11
34.	Smita Purushottam Khorgade	09
35.	Suraj Wasudeo Harode	14
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37.	Trupti Gunsagar Somkuwar	14
38.	Trupti Yogesh Padole	14
39.	Vaishnavi Sanjay Shivhare	13
40.	Vaishnavi Vishnu Shende	14
41.	Vidya Vasataji Waghade	Absent
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Ahandekar.

Signature of the Teacher

[Signature]

Head

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S. S. E. S. Am's Science College,
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's
Science College , Congress Nagar, Nagpur
Academic Session 2022-2023
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. Write a note on :—
- (i) Maximal frequent Horrible Closed Itemset. 8
- (ii) Tree Project
- B. Explain use of ANN for data classification. 8
- C. What is Anomaly detection ? Differentiate between outlier and anomaly detection. 8
- D. Explain Shared Nearest Neighbour Approach. 8

Q2. Answer the Following (Any 1)

- A. Explain the concept of Hash Tree. 4
- B. Explain Tree Projection Rule. 4
- C. What is LOF approach? 4

Ahandekar.

Signature of the Teacher

[Signature]

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Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – IV (Computer Science) Session 2022-23
Unit Test - I

Name of Teacher: Dr. M. S. Hingle

Date: 16/02/2023

Subject: Artificial Intelligence and Expert System (Paper-II) Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	13
2.	AfreenFayyaz Ahmad	16
3.	Akansha Ghanshyam Charde	18
4.	Aleena Azam Ansari	17
5.	Apurva Anil Tiwari	Absent
6.	Apurva Mohan Pande	18
7.	Ashwini Surendra Dhenge	17
8.	Chitra Namdeo Bangadkar	12
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10.	Dolly Rajesh Waghmare	17
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Signature of the Teacher



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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M.Sc. Semester-IV (Computer Science) Session 2022-2023
Artificial Intelligence & Expert System (Paper II)
Unit Test on Unit (I & II)**

Time: 1 hour]

[Maximum Marks: 20

Q1. Answer the Following (Any 2)

- | | |
|---|---|
| A. Discuss the Water jug problem. | 8 |
| B. What is the role of knowledge representation? Discuss. | 8 |
| C. Discuss Means-End-Analysis with its operators. | 8 |
| D. Explain the Forward versus Backward Reasoning. | 8 |

Q2. Answer the Following (Any 1)

- | | |
|--|---|
| A. Explain the different characteristics of problem solving. | 4 |
| B. Discuss the Heuristic Search. | 4 |
| C. Explain Expert system. | 4 |



Signature of the Teacher



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Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – IV (Computer Science) Session 2022-23
Unit Test - II

Name of Teacher: Dr. M. S. Hingle

Date: 12/04/2023

Subject: Artificial Intelligence and Expert System (Paper-II) Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	16
2.	AfreenFayyaz Ahmad	Absent
3.	Akansha Ghanshyam Charde	12
4.	Aleena Azam Ansari	11
5.	Apurva Anil Tiwari	16
6.	Apurva Mohan Pande	13
7.	Ashwini Surendra Dhenge	17
8.	Chitra Namdeo Bangadkar	12
9.	Divya Vilas Kawale	13
10.	Dolly Rajesh Waghmare	12
11.	Ganesh Dhondu Pandhare	18
12.	Harshal Sunil Nehare	17
13.	Kartik Rustam Borkar	17
14.	Krutika Pandurang Dekate	Absent
15.	Kunal Vaibhav Chimurkar	14
16.	Mayur Mukinda Borate	13
17.	Neetu Uma Shankar	17
18.	Neha Devendra Yadav	12
19.	Nikhil Parasram Bhendarkar	13
20.	Nikhil SudhakarMohurle	12
21.	Payal Bhimrao Atram	13
22.	Pragati Hiranman Charde	16
23.	Praju Arunrao Bhagat	18
24.	Prakash Deepak Patil	17
25.	Pranjali Ramesh Bhojar	Absent
26.	Pratiksha Shivram Date	18
27.	Priya Sumesh Sharma	17
28.	Ritika Madan Ganvir	12
29.	Ruchi Rajesh Dwivedi	16
30.	Sakshi Ramdas Bawankule	17
31.	Samruddhi Anil Lokhande	Absent
32.	Sanket Sharad Hadge	16

33.	Shraddha Ramcharansingh Chandel	16
34.	Smita Purushottam Khorgade	13
35.	Suraj Wasudeo Harode	13
36.	Swapnil Somnath Urkude	17
37.	Trupti Gunsagar Somkuwar	12
38.	Trupti Yogesh Padole	16
39.	Vaishnavi Sanjay Shivhare	17
40.	Vaishnavi Vishnu Shende	Absent
41.	Vidya Vasataji Waghade	18
42.	Yachana Yashwantrao Bisane	17
43.	Yashashree Devanand Masurkar	12



Signature of the Teacher



Head
Department of Computer Science

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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 2022-2023
Artificial Intelligence & Expert System (Paper II)
Unit Test - II**

Time: 1 hour]

[Maximum Marks: 20

Q1. Answer the Following (Any 2)

- A. Explain MINIMAX search procedures with example. What are the additional refinements to the minimax procedure? 8
- B. What is understanding? Explain understanding as constraint satisfaction. 8
- C. Explain Alpha beta cutoff. 8
- D. Discuss Unification grammars in AI. 8

Q2. Answer the Following (Any 1)

- A. Discuss the Non-Linear planning. 4
- B. Discuss Hierarchical planning. 4
- C. Discuss the parallel and distributed AI. 4



Signature of the Teacher



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Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – IV (Computer Science) Session 2022-23
Unit Test - I

Name of Teacher: Mrs. S. S. Khandalkar
Subject: Embedded System (Paper-III)

Date: 28/03/2023
Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	Absent
2.	AfreenFayyaz Ahmad	19
3.	Akansha Ghanshyam Charde	19
4.	Aleena Azam Ansari	16
5.	Apurva Anil Tiwari	Absent
6.	Apurva Mohan Pande	14
7.	Ashwini Surendra Dhenge	19
8.	Chitra Namdeo Bangadkar	15
9.	Divya Vilas Kawale	16
10.	Dolly Rajesh Waghmare	19
11.	Ganesh Dhondu Pandhare	19
12.	Harshal Sunil Nehare	11
13.	Kartik Rustam Borkar	15
14.	Krutika Pandurang Dekate	20
15.	Kunal Vaibhav Chimurkar	19
16.	Mayur Mukinda Borate	20
17.	Neetu Uma Shankar	16
18.	Neha Devendra Yadav	10
19.	Nikhil Parasram Bhendarkar	19
20.	Nikhil SudhakarMohurle	19
21.	Payal Bhimrao Atram	18
22.	Pragati Hiranman Charde	17
23.	Praju Arunrao Bhagat	20
24.	Prakash Deepak Patil	20
25.	Pranjali Ramesh Bhojar	14
26.	Pratiksha Shivram Date	16
27.	Priya Sumesh Sharma	19
28.	Ritika Madan Ganvir	19
29.	Ruchi Rajesh Dwivedi	14
30.	Sakshi Ramdas Bawankule	17
31.	Samruddhi Anil Lokhande	18

32.	Sanket Sharad Hadge	13
33.	Shraddha Ramcharansingh Chandel	17
34.	Smita Purushottam Khorgade	14
35.	Suraj Wasudeo Harode	Absent
36.	Swapnil Somnath Urkude	16
37.	Trupti Gunsagar Somkuwar	14
38.	Trupti Yogesh Padole	17
39.	Vaishnavi Sanjay Shivhare	16
40.	Vaishnavi Vishnu Shende	10
41.	Vidya Vasataji Waghade	14
42.	Yachana Yashwantrao Bisane	Absent
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Signature of the Teacher



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S. S. E. S. Am's Science College,
Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Academic Session 2022-2023
Master of Science(M.Sc.) (Computer Science) (Semester-IV)
Embedded System -III
Unit Test - I**

Time :1 Hour

Total 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



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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – IV (Computer Science) Session 2022-23
Unit Test - II**

**Name of Teacher: Mrs. S. S. Khandalkar
Subject: Embedded System (Paper-III)**

**Date: 08/05/2023
Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	14
2.	AfreenFayyaz Ahmad	14
3.	Akansha Ghanshyam Charde	12
4.	Aleena Azam Ansari	19
5.	Apurva Anil Tiwari	18
6.	Apurva Mohan Pande	11
7.	Ashwini Surendra Dhenge	Absent
8.	Chitra Namdeo Bangadkar	9
9.	Divya Vilas Kawale	20
10.	Dolly Rajesh Waghmare	14
11.	Ganesh Dhondu Pandhare	14
12.	Harshal Sunil Nehare	19
13.	Kartik Rustam Borkar	10
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18.	Neha Devendra Yadav	12
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26.	Pratiksha Shivram Date	11
27.	Priya Sumesh Sharma	19
28.	Ritika Madan Ganvir	Absent
29.	Ruchi Rajesh Dwivedi	10

30.	Sakshi Ramdas Bawankule	18
31.	Samruddhi Anil Lokhande	9
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Signature of the Teacher



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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Academic Session 2022-2023
Master of Science(M.Sc.) (Computer Science) (Semester-IV)
Embedded System -III
Unit Test - II**

Time :1 Hour

Total 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



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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – IV (Computer Science) Session 2022-23
Unit Test - I**

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

**Date: 20/03/2023
Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	12
2.	AfreenFayyaz Ahmad	11
3.	Akansha Ghanshyam Charde	04
4.	Aleena Azam Ansari	10
5.	Apurva Anil Tiwari	14
6.	Apurva Mohan Pande	12
7.	Ashwini Surendra Dhenge	10
8.	Chitra Namdeo Bangadkar	08
9.	Divya Vilas Kawale	09
10.	Dolly Rajesh Waghmare	09
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14.	Krutika Pandurang Dekate	10
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20.	Nikhil SudhakarMohurle	08
21.	Payal Bhimrao Atram	10
22.	Pragati Hiranman Charde	AB
23.	Praju Arunrao Bhagat	09
24.	Prakash Deepak Patil	08
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26.	Pratiksha Shivram Date	AB
27.	Priya Sumesh Sharma	10
28.	Ritika Madan Ganvir	09
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33.	Shraddha Ramcharansingh Chandel	AB
34.	Smita Purushottam Khorgade	12
35.	Suraj Wasudeo Harode	10
36.	Swapnil Somnath Urkude	10
37.	Trupti Gunsagar Somkuwar	09
38.	Trupti Yogesh Padole	14
39.	Vaishnavi Sanjay Shivhare	16
40.	Vaishnavi Vishnu Shende	07
41.	Vidya Vasataji Waghade	10
42.	Yachana Yashwantrao Bisane	10
43.	Yashashree Devanand Masurkar	11



Signature of the Teacher



Head
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Professor & Head
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Congress Nagar, Nagpur

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Session 2022-23

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. Explain the evaluating static interconnection networks. | 8 |
| B.Explain the communication cost in parallel machines. | 8 |
| C. Explain All-to-All Personalized Communication. | 8 |
| D. What are the topologies and embedding? | 8 |

Q. 2 (Solve any one question)

- | | |
|--|---|
| A. Discuss the motivating parallelism. | 4 |
| B. What is circular shift? | 4 |



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Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – IV (Computer Science) Session 2022-23
Unit Test - II

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

Date: 13/04/2023
Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	11
2.	AfreenFayyaz Ahmad	09
3.	Akansha Ghanshyam Charde	AB
4.	Aleena Azam Ansari	12
5.	Apurva Anil Tiwari	15
6.	Apurva Mohan Pande	11
7.	Ashwini Surendra Dhenge	09
8.	Chitra Namdeo Bangadkar	08
9.	Divya Vilas Kawale	07
10.	Dolly Rajesh Waghmare	08
11.	Ganesh Dhondu Pandhare	09
12.	Harshal Sunil Nehare	09
13.	Kartik Rustam Borkar	10
14.	Krutika Pandurang Dekate	09
15.	Kunal Vaibhav Chimurkar	10
16.	Mayur Mukinda Borate	10
17.	Neetu Uma Shankar	11
18.	Neha Devendra Yadav	11
19.	Nikhil Parasram Bhendarkar	10
20.	Nikhil SudhakarMohurle	09
21.	Payal Bhimrao Atram	09
22.	Pragati Hiranman Charde	AB
23.	Praju Arunrao Bhagat	10
24.	Prakash Deepak Patil	11

25.	Pranjali Ramesh Bhojar	09
26.	Pratiksha Shivram Date	08
27.	Priya Sumesh Sharma	09
28.	Ritika Madan Ganvir	10
29.	Ruchi Rajesh Dwivedi	06
30.	Sakshi Ramdas Bawankule	07
31.	Samruddhi Anil Lokhande	10
32.	Sanket Sharad Hadge	10
33.	Shraddha Ramcharansingh Chandel	02
34.	Smita Purushottam Khorgade	13
35.	Suraj Wasudeo Harode	10
36.	Swapnil Somnath Urkude	09
37.	Trupti Gunsagar Somkuwar	08
38.	Trupti Yogesh Padole	15
39.	Vaishnavi Sanjay Shivhare	17
40.	Vaishnavi Vishnu Shende	08
41.	Vidya Vasataji Waghade	11
42.	Yachana Yashwantrao Bisane	09
43.	Yashashree Devanand Masurkar	10



Signature of the Teacher



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Session 2022-23**

**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. How works sorting networks? | 8 |
| C. Write the overview of dynamic programming. | 8 |
| D. Explain the scalability of parallel system. | 8 |

Q. 2 (Solve any one question)

- | | |
|--|---|
| A. What is the effect of granularity on performance? | 4 |
| B. Describe the openmp Library functions? | 4 |

C. What are the topologies and embedding?

4



Signature of the Teacher



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