

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – I (Computer Science) Session 2021-22
R Unit Test - I

Name of Teacher: L. Chahaun

Date: 5/08/2021

Subject: Discrete Mathematical Structure (Paper I)

Maximum Marks: 20

Sr. No.	Name of Students	Marks Obtained
1.	Achal Dipak Ghagi	13
2.	Afreen Fayyaz 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 NamdeoBangadkar	12
9.	Divya Vilas Kawale	16
10.	Dolly Rajesh Waghmare	17
11.	Ganesh DhonduPandhare	Absent
12.	Harshal Sunil Nehare	16
13.	Kartik Rustam Borkar	16
14.	Krutika Pandurang Dekate	13
15.	Kunal Vaibhav Chimurkar	13
16.	Mayur Mukinda Borate	16
17.	Neetu Uma Shankar	18
18.	Neha Devendra Yadav	17
19.	Nikhil Parasram Bhendarkar	Absent
20.	Nikhil Sudhakar Mohurle	18
21.	Payal bhimrao Atram	17
22.	Pragati Hiranman Charde	12
23.	PrajuArunrao Bhagat	16
24.	Prakash Deepak Patil	17
25.	Pranjali Ramesh Bhoyar	Absent
26.	Pratiksha Shivram Date	18
27.	Priya Sumesh Sharma	17
28.	Ritika Madan Ganvir	18
29.	Ruchi Rajesh Dwivedi	16
30.	Sakshi Ramdas Bawankule	Absent
31.	Samruddhi Anil Lokhande	Absent
32.	Sanket Sharad Hadge	13
33.	Shraddha Ramcharansingh Chandel	17
34.	Smita Purushottam Khorgade	14

35.	Suraj Wasudeo Harode	13
36.	Swapnil Somnath Urkude	16
37.	Trupti GunsagarSomkuwar	18
38.	Trupti Yogesh Padole	17
39.	Vaishnavi Sanjay Shivhare	13
40.	Vaishnavi Vishnu Shende	16
41.	Vidya VasatajiWaghade	18
42.	Yachana Yashwantrao Bisane	17
43.	Yashashree Devanand Masurkar	Absent



Signature of the Teacher



Head
Department of Computer Science

Professor & Head
Department of Computer Science
S. S. E. S. Ami'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 2021-2022
Discrete Mathematical Structure (Paper I)
Unit Test - I

[Time: 1 Hour]

[Maximum Marks:20]

Q. 1 Choose the correct option and answer the following:

1. What is the normal form of the statement

"It is not raining and it is not sunny"?

2

- a) $p \text{ AND } q$
- b) $\text{NOT } p \text{ AND NOT } q$
- c) $p \text{ OR } q$
- d) $\text{NOT } p \text{ OR NOT } q$

2. The principle that states that if there are more pigeons than pigeonholes, at least one pigeonhole must contain more than one pigeon is known as:

2

- a) Pigeonhole principle
- b) Inclusion-exclusion principle
- c) Multiplication principle

d) Division principle

3. In how many ways can you arrange the letters in the word "MATH"? 2

- a) 12
- b) 24
- c) 120
- d) 720

4. Which of the following represents the transitive closure of a relation? 2

- a) The relation itself
- b) The reflexive closure of the relation
- c) The symmetric closure of the relation
- d) The reflexive and transitive closure of the relation

5. In a digraph, a path from vertex A to vertex B means: 2

- a) There is a direct edge from A to B
- b) There is a series of connected edges from A to B
- c) There is no connection between A and B
- d) There is an edge from B to A

6. An equivalence relation must satisfy which properties? 2

- a) Reflexive, symmetric, and transitive
- b) Symmetric and transitive
- c) Reflexive and transitive
- d) Reflexive and symmetric

7. Which function grows faster asymptotically: logarithmic or exponential? 2

- a) Logarithmic
- b) Exponential
- c) They grow at the same rate
- d) It depends on the base of the logarithm and the base of the exponential function

8. What is the definition of a permutation function? 2

- a) A function that rearranges the elements of a set without repetition
- b) A function that selects elements from a set without replacement
- c) A function that arranges elements of a set in a specific order
- d) A function that maps elements from one set to another set

9. Which of the following represents a valid function in computer science? 2

- a) $f(x) = x^2 + 1$, for $x \in \mathbb{R}$
- b) $f(x) = \pm\sqrt{x}$, for $x \geq 0$
- c) $f(x) = 1/x$, for $x \neq 0$
- d) $f(x) = \log(x)$, for $x > 0$

10. What is the growth rate of the factorial function $n!$? 2

- a) Polynomial

- b) Exponential
- c) Logarithmic
- d) Factorial



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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 2021-22
R Unit Test - II**

Name of Teacher: L.Chahaun

Date: 5/10/2021

Subject: Discrete Mathematical Structure (Paper I)

Maximum Marks: 20

Sr. No.	Name of Students	Marks Obtained
1.	Achal Dipak Ghagi	13
2.	Afreen Fayyaz Ahmad	16
3.	Akansha Ghanshyam Charde	18
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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 2021-2022
Discrete Mathematical Structure (Paper I)
Unit Test II**

[Time: 1 Hour]

[Maximum Marks:20]

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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 2021-22
R Unit Test - I

Name of Teacher: Mr. M. T. Wanjari

Date: 12/10/2021

Subject: Programming in Java (Paper-II)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	14
2.	AfreenFayyaz Ahmad	10
3.	AkanshaGhanshyamCharde	08
4.	Aleena Azam Ansari	16
5.	Apurva Anil Tiwari	16
6.	Apurva Mohan Pande	12
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43.	Yashashree Devanand Masurkar	10



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Head**




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Congress Nagar, Nagpur

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

Session 2021-22

Master of Science (M. Sc.) Semester – I (Computer Science)

Programming in Java (Paper-II)

Unit Test – I

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

- Which data type value is returned by all transcendental math functions? 2
a) int b) float
c) double d) long
- What is the process of defining more than one method in a class differentiated by method signature? 2
a) Function overriding b) Function overloading
c) Function doubling d) None of the mentioned
- What is not type of inheritance? 2
a) Single inheritance b) Double inheritance
c) Hierarchical inheritance d) Multiple inheritance

4. Which of these functions is called to display the output of an applet? 2
a) display() b) paint()
c) displayApplet() d) PrintApplet()
5. Which object can be constructed to show any number of choices in the visible window? 2
a. Labels b. Choice
c. List d. Checkbox
6. InetAddress class is not used to encapsulate IP address and DNS. 2
a) True b) False
7. The ActionListener interface is not used for handling action events? 2
a) True b) False
8. Which method can be defined only once in a program? 2
a) main method b) finalize method
c) static method d) private method
9. Which of these functions is called to display the output of an applet? 2
a) display() b) paint()
c) displayApplet() d) PrintApplet()
10. What will be the output of the following Java program? 2

```
class c
{
publicvoid main(String[]args)
{
System.out.println("Hello"+args[0]);
}
}
```

- a) Hello c b) Hello
c) Hello world d) Runtime Error



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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 2021-22
R Unit Test - II

Name of Teacher: Mr. M. T. Wanjari
Subject: Programming in Java (Paper-II)

Date: 09/11/2021
Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	16
2.	AfreenFayyaz Ahmad	14
3.	AkanshaGhanshyamCharde	10
4.	Aleena Azam Ansari	14
5.	Apurva Anil Tiwari	18
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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Session 2021-22**

**Master of Science (M. Sc.) Semester – I (Computer Science)
Programming in Java (Paper-II)
Unit Test – II**

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

- Which is not a directive?
 - include
 - page
 - export
 - useBean

2

2. setAutoCommit(false) does not commit transaction automatically after each query. 2
a) True b) False
3. java.rmi package is used for remote method invocation. 2
a) True b) False
4. Application is instance of which class? 2
a) javax.servlet.Application b) javax.servlet.HttpContext
c) javax.servlet.Context d) javax.servlet.ServletContext
5. Java Beans are extremely secured? 2
a) True b) False
6. _____contains both date and time. 2
a) java.io.date b) java.sql.date
c) java.util.date d) java.util.dateTime
7. Which of the following is used to call stored procedure? 2
a) Statement b) PreparedStatement
c) CallableStatement d) CalledStatement
8. Which file separator should be used by MANIFEST file? 2
a) / b) \
c) – d) //
9. Extends java.io.Serializable class. 2
a) True b) False
10. How constructor can be used for a servlet? 2
a) Initialization b) Constructor function
c) Initialization and Constructor function d) Setup() method



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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 2021-22**

R Unit Test - I**Name of Teacher: Mrs. Swati S. Khandalkar****Date: 22/11/2021****Subject: Digital Electronics and Microprocessor (Paper-III)****Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	14
2.	AfreenFayyaz Ahmad	9
3.	AkanshaGhanshyamCharde	Absent
4.	Aleena Azam Ansari	14
5.	Apurva Anil Tiwari	19
6.	Apurva Mohan Pande	absent
7.	Ashwini SurendraDhenge	11
8.	ChitraNamdeoBangadkar	19
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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Academic Session 2021-2022
Master of Science (M.Sc.) Semester-I (Computer Science)
Digital Electronics and Microprocessor (Paper-III)
Unit Test - I**

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

- The octal equivalent of 1100101.001010 is _____
 - 624.12
 - 145.12
 - 154.12
 - 145.21
- In both signed magnitude and 2's complement, positive and negative numbers are separated using _____
 - LSB
 - MSB
 - 0
 - 1

3. Which of the following gate will give a 0 when both of its inputs are 1?
- AND
 - OR
 - NAND
 - EXOR
4. The expression of an EXOR gate is _____
- $A'B+AB'$
 - $AB+A'B'$
 - $A+A.B$
 - $A'+B'$
5. Reflected binary code is also known as _____
- BCD code
 - Binary code
 - ASCII code
 - Gray Code
6. Which of the following is false?
- $x+y=y+x$
 - $x.y=y.x$
 - $x.x'=1$
 - $x+x'=1$
7. The general form for calculating the number of rows in a truth table is _____
- $2n$
 - $2^{(n+1)}$
 - 2^n
 - $2(n+1)$
8. The output of AND gates in the SOP expression is connected using the _____ gate.
- XOR
 - NOR
 - AND
 - OR
9. What is a multiplexer?
- It is a type of decoder which decodes several inputs and gives one output
 - A multiplexer is a device which converts many signals into one
 - It takes one input and results into many output
 - It is a type of encoder which decodes several inputs and gives one output
10. How many AND, OR and EXOR gates are required for the configuration of full adder?
- 1, 2, 2
 - 2, 1, 2
 - 3, 1, 2
 - 4, 0, 1



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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 2021-22
R Unit Test - II

Name of Teacher: Mrs. S. S. Khandalkar

Date: 29/12/2021

Subject: Digital Electronics and Microprocessor (Paper-III)

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34.	SmitaPurushottamKhorgade	20
35.	SurajWasudeoHarode	19
36.	Swapnil SomnathUrkude	10
37.	TruptiGunsagarSomkuwar	16
38.	Trupti Yogesh Padole	13
39.	Vaishnavi Sanjay Shivhare	14
40.	Vaishnavi Vishnu Shende	17
41.	Vidya Vasataji Waghade	19
42.	Yachana Yashwantrao Bisane	Absent
43.	Yashashree Devanand Masurkar	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.
Academic Session 2021-2022
Master of Science (M.Sc.) Semester-I (Computer Science)
Digital Electronics and Microprocessor (Paper-III)
Unit Test - II**

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

1. The logic circuits whose outputs at any instant of time depends only on the present input but also on the past outputs are called _____
 - a. Combinational circuits
 - b. Sequential circuits
 - c. Latches
 - d. Flip-flops
2. In S-R flip-flop, if $Q = 0$ the output is said to be _____
 - a. Set
 - b. Reset
 - c. Previous state
 - d. Current state
3. Match the following sequential Circuits with associated functions
 1. Counter A. Storage of Program & data in a digital computer
 2. Register B. Generation of timing variables to sequence the digital system operations
 3. Memory C. Design of Sequential Circuits

Codes:

 - a. 1-A , 2-B , 3-C
 - b. 1-C , 2-B , 3-A
 - c. 1-C , 2-A , 3-B
 - d. 1-B , 2-C , 3-A
4. In a J-K flip-flop, if $J=K$ the resulting flip-flop is referred to as _____
 - a. D flip-flop
 - b. S-R flip-flop
 - c. T flip-flop
 - d. S-K flip-flop
5. The only difference between a combinational circuit and a flip-flop is that _
 - a. The flip-flop requires previous state
 - b. The flip-flop requires next state
 - c. The flip-flop requires a clock pulse
 - d. The flip-flop depends on the past as well as present states
6. How many type of addressing in memory:
 - a. Logical address
 - b. Physical address
 - c. Both A and B
 - d. None of these
7. Which segment register is being used in the given instruction?
MOV CX , [IP]
 - a. Extra Segment Register (ES)
 - b. Code Segment Register (CS)
 - c. Stack Segment Register (SS)
 - d. None of the Above
8. The BIU prefetches the instruction from memory and store them in

- a. queue
 - b. register
 - c. memory
 - d. stack
9. Which of the following instruction is not valid?
- a. MOV AX, BX
 - b. MOV DS, 5000H
 - c. MOV AX, 5000H
 - d. PUSH AX
10. A 16-bit displacement that references a memory location using any of the addressing modes is
- a. pointer
 - b. character
 - c. BCD
 - d. offset



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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 2021-22
R Unit Test - I

Name of Teacher: A.M.Taori

Date: 28/08/2021

Subject: Advanced DBMS and Administration (Paper-IV)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	18
2.	AfreenFayyaz Ahmad	16
3.	AkanshaGhanshyamCharde	17
4.	Aleena Azam Ansari	17
5.	Apurva Anil Tiwari	18
6.	Apurva Mohan Pande	15
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16.	MayurMukinda Borate	15
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42.	YachanaYashwantraoBisane	16
43.	YashashreeDevanandMasurkar	17

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Department of Computer Science**

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Academic Session 2021-2022
Master of Science (M.Sc.) Semester-I (Computer Science)
Advanced DBMS and Administration (Paper-IV)
Unit Test - I**

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

1. Which of the following is a method for estimating query processing cost? 2
- A) Table Scan
 - B) Index Sample Access
 - C) Fill Factor
 - D) Index Multiple Access
2. Query Optimization primarily aims to: 2
- A) Interpret the query syntax
 - B) Optimize the query for execution
 - C) Estimate the cost of query processing.
 - D) Execute the query against the database
3. Which of the following is NOT a query processing stage? 2
- A) Query Parsing
 - B) Query Compilation
 - C) Query Indexing
 - D) Query Execution
4. A relation is in Second Normal Form (2NF) if: 2
- A) It is in First Normal Form (1NF) and has no partial dependencies
 - B) It is in First Normal Form (1NF) and every non-prime attribute is fully functionally dependent on the primary key.
 - C) It is in Second Normal Form (2NF) and has no transitive dependencies.
 - D) It is in Second Normal Form (2NF) and has no partial dependencies.
5. The fill factor in query processing refers to: 2

- A) The percentage of pages filled with data in an index
 - B) The ratio of successful queries to total queries
 - C) The number of attributes in a relation
 - D) The number of tuples in a relation
6. Which of the following is a type of failure in transaction processing? 2
- A) Atomic failure
 - B) Logical failure
 - C) Integrity failure
 - D) Resource failure
7. Deadlocks in concurrency control occur when: 2
- A) Two transactions access the same data at the same time
 - B) Transactions wait indefinitely for each other to release locks.
 - C) Transactions execute in parallel without any coordination.
 - D) Transactions cannot be rolled back due to failure.
8. Long-duration transactions are problematic because they: 2
- A) Require excessive storage space
 - B) Can cause contention for resources and affect concurrency
 - C) Are prone to deadlock situations
 - D) Lead to inconsistent database states
9. Crash recovery in database management systems involves: 2
- A) Restoring data after a power failure or system crash
 - B) Optimizing database performance during normal operation
 - C) Encrypting sensitive data to prevent unauthorized access
 - D) Generating reports for management analysis
10. Which technique for concurrency control is based on locking resources to prevent conflicts between transactions? 2
- A) Time-stamp ordering

B) Multiple granularity locking

C) Shadow paging

D) Checkpoints



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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
R Unit Test - II**

Name of Teacher: A.M.Taori

Date: 10/10/2021

Subject: Advanced DBMS and Administration (Paper-IV)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	18
2.	AfreenFayyaz Ahmad	16
3.	AkanshaGhanshyamCharde	17
4.	Aleena Azam Ansari	17
5.	Apurva Anil Tiwari	18
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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 2021-2022
Master of Science (M.Sc.) Semester-I (Computer Science)
Advanced DBMS and Administration (Paper-IV)
Unit Test - II**

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

1. In Oracle, which statement best describes an index? 2
 - A) It is a physical file that contains table data.
 - B) It is a data structure that improves the speed of data retrieval operations.
 - C) It is a constraint used to enforce data integrity rules.
 - D) It is a privilege granted to users to access specific database objects.

2. Oracle Data Pump is used for: 2
 - A) Importing and exporting data between Oracle databases
 - B) Managing storage allocation within data files
 - C) Monitoring database performance in real-time
 - D) Recovering corrupted data files

3. Which Oracle utility is used to perform a physical backup of the database? 2
 - A) RMAN (Recovery Manager)
 - B) SQL*Loader
 - C) Data Pump
 - D) Export

4. What is the purpose of Oracle Flashback Technology? 2
 - A) To recover from media failures using incremental backups
 - B) To restore the database to a previous point in time.
 - C) To provide a high-speed data transfer mechanism.
 - D) To view and rewind database changes at a transactional level

5. In Oracle, which statement best describes a standby database? 2
 - A) It is a read-only copy of the primary database used for reporting purposes.
 - B) It is a backup copy of the database stored on a separate server for disaster recovery.
 - C) It is a temporary storage area used during query processing.
 - D) It is a special database used for managing user authentication.

6. Which Oracle component is responsible for monitoring and detecting lock contention? 2
 - A) Data Dictionary
 - B) Redo Log buffer
 - C) Lock Manager
 - D) Shared Pool

7. Which SQL tuning consideration is particularly relevant for improving query performance in Oracle databases? 2

- A) Reducing network latency
- B) Minimizing disk space usage
- C) Optimizing table scans and index usage
- D) Increasing CPU processing speed.

8. What is the primary purpose of integrity constraints in Oracle databases? 2

- A) Ensuring data consistency and accuracy
- B) Optimizing disk storage
- C) Improving query performance
- D) Enforcing password security policies

9. Which SQL statement is used to define integrity constraints in Oracle databases? 2

- A) CREATE INDEX
- B) ALTER TABLE
- C) CREATE TABLE
- D) DEFINE CONSTRAINT

10. Database security in Oracle primarily involves: 2

- A) Protecting against physical theft of server hardware
- B) Encrypting network traffic between clients and servers
- C) Enforcing access controls and authorization policies
- D) Optimizing query performance



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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – III (Computer Science) Session 2021-22
R Unit Test – I**

Name of Teacher: Ms S.Dhakate

Date: 27/08/2021

Subject: Data Communication & Network (Paper I)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Aishwarya Prashant Pusadkar	14
2.	Aniket Goutam Kamble	13
3.	Anjali Milind Pakhidde	16
4.	Ankita Anil Banasure	13
5.	Ashlesha DadaraoKadaskar	17
6.	Ashwini MularidharRahngadale	12
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43.	Urvashi MegandasSonboir	13
44.	Vaishali Kishor Paliwal	16
45.	YuganshiAmarsingh Bais	15
46.	Yukta DhruwakumarHajare	13

Signature of the Teacher



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-III (Computer Science) Session 2021-2022
Data Communication & Network (Paper I)
Unit Test - I**

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

1. Which layer of the OSI model is responsible for the theoretical basis of data communication and transmission media?

2

a) Physical Layer

- b) Data Link Layer
- c) Network Layer
- d) Transport Layer

2. What are the two main types of transmission in the Physical Layer? 2

- a) Analog and Digital Transmission
- b) Ethernet and Wi-Fi
- c) TCP and UDP
- d) HTTP and FTP

3. Which technology is associated with ISDN (Integrated Services Digital Network)? 2

- a) Analog Transmission
- b) Digital Transmission
- c) Fiber Optics
- d) DSL (Digital Subscriber Line)

4. What is the primary function of the Data Link Layer? 2

- a) Routing packets between different networks
- b) Ensuring reliable data transfer
- c) Error detection and correction
- d) Establishing, maintaining, and terminating sessions

5. Which protocol is commonly used for error detection and correction at the Data Link Layer? 2

- a) TCP
- b) UDP
- c) CRC (Cyclic Redundancy Check)
- d) IP

6. Which protocol is an example of an elementary data link protocol? 2

- a) HTTP
- b) FTP
- c) Ethernet
- d) SMTP

7. What is the purpose of the sliding window protocol? 2

- a) To manage congestion in the network
- b) To facilitate connection management
- c) To improve the efficiency of data transfer
- d) To encrypt data for secure communication

8. Which layer is responsible for routing algorithms and congestion control algorithms? 2

- a) Physical Layer
- b) Data Link Layer
- c) Network Layer
- d) Transport Layer

9. What does TCP stand for?

- a) Transmission Control Protocol
- b) Transport Connection Protocol
- c) Technical Control Protocol
- d) Transmission Connection Protocol

10. Which layer manages the establishment, maintenance, and termination of sessions between applications?

- a) Transport Layer
- b) Session Layer
- c) Presentation Layer
- d) Application Layer



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 – III (Computer Science) Session 2021-22

R Unit Test - II

Name of Teacher: Ms S.Dhakate

Date: 08/10/2021

Subject: Data Communication & Network (Paper I)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Aishwarya Prashant Pusadkar	17
2.	Aniket Goutam Kamble	Absent
3.	Anjali Milind Pakhidde	14
4.	Ankita Anil Banasure	13
5.	Ashlesha Dadarao Kadaskar	16
6.	Ashwini Mularidhar Rahngadale	13
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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M.Sc. Semester-III (Computer Science) Session 2021-2022
Data Communication & Network (Paper I)
Unit Test II**

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

- | | |
|--|---|
| 1. What is the primary purpose of network security? | 2 |
| a) Ensuring high-speed network connectivity | |
| b) Protecting network resources from unauthorized access | |
| c) Maximizing network bandwidth utilization | |
| d) Enhancing network performance | |
| 2. Which of the following is a security vulnerability? | 2 |
| a) Encryption | |
| b) Firewalls | |
| c) Weak passwords | |
| d) Intrusion detection systems | |
| 3. Which classification of security services includes authentication, access control, and non-repudiation? | 2 |
| a) Preventive measures | |
| b) Detective measures | |
| c) Corrective measures | |
| d) Recovery measures | |
| 4. What is the primary purpose of cryptography in network security? | 2 |
| a) Preventing physical attacks on network infrastructure | |
| b) Ensuring the confidentiality, integrity, and authenticity of data | |
| c) Monitoring network traffic for anomalies | |
| d) Optimizing network performance | |
| 5. Which encryption algorithm is considered a conventional encryption technique? | 2 |
| a) RSA | |
| b) DES (Data Encryption Standard) | |

- c) AES (Advanced Encryption Standard)
- d) Diffie-Hellman

6. What is the primary purpose of CBC (Cipher Block Chaining) mode in encryption? 2

- a) Ensuring message integrity
- b) Distributing encryption keys securely
- c) Preventing known plaintext attacks
- d) Providing randomized encryption output

7. Where is the location of encryption devices typically in a network architecture? 2

- a) At the network core
- b) At the network edge
- c) Distributed throughout the network
- d) Only at end-user devices

8. Which cryptographic technique is used for message authentication? 2

- a) Digital signatures
- b) Conventional encryption
- c) Symmetric key encryption
- d) Public key encryption

9. Which hashing algorithm is commonly used for generating message digests? 2

- a) DES
- b) IDEA
- c) SHA (Secure Hash Algorithm)
- d) RSA

10. Which authentication method uses certificates issued by a trusted third party? 2

- a) Password-based authentication
- b) Address-based authentication
- c) Public key authentication
- d) Biometric authentication



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 2021-22
R Unit Test - I

Name of Teacher: Dr. M. T. Wanjari

Date: 13/10/2021

Subject: Software Engineering (Paper II)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Aishwarya Prashant Pusadkar	14
2.	Aniket Goutam Kamble	12
3.	Anjali Milind Pakhidde	16
4.	Ankita Anil Banasure	14
5.	Ashlesha DadaraoKadaskar	12
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42.	Tejaswini VijayraoHirudkar	14
43.	Urvashi MegandasSonboir	16
44.	Vaishali Kishor Paliwal	14
45.	YuganshiAmarsingh Bais	16
46.	Yukta DhruwakumarHajare	14



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 2021-22**

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

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

1. The goal of the requirements engineering process is to create and maintain a system requirements document.

A. True

B. False

2. Requirements discovery is the process of gathering information about the proposed and existing systems and distilling the user and system requirements from this information. 2

- A. Viewpoints
- B. Interviewing
- C. Scenarios
- D. All of these

3. _____ are a scenario-based technique for requirements elicitation which were first introduced in the objectory method. 2

- A. Scenarios
- B. Use-cases
- C. Viewpoints
- D. Interviewing

4. During the requirements validation process, checks should be carried out on the requirements in the requirements document includes: 2

- A. Validity checks
- B. Consistency checks
- C. Completeness checks
- D. All of the above

5. A requirements review is not a manual process that involves people from both client and contractor organizations. 2

- A. True
- B. False

6. _____ is the set of activities that assess the impact and cost of changes. 2

- A. Traceability policies
- B. Requirements identification
- C. A change management process
- D. none of these

7. What are the principal stages to a change management process? 2

- A. Problem analysis and change specification
- B. Change analysis and costing
- C. Change implementation
- D. All of the above

8. User requirements should be written in natural language because they have to be understood by people who are not technical experts. 2

- A. True
- B. False

9. A _____ shows how entities in the system are composed of other entities. 2

- A. data- flow model
- B. composition model
- C. classification model
- D. architectural model

10. _____ are an intuitive way of showing how data is processed by a system. 2

A. System models

B. Data-flow models

C. Behavioural models

D. Context models



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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – III (Computer Science) Session 2021-22
R Unit Test - II**

Name of Teacher: Dr. M. T. Wanjari

Date: 11/11/2021

Subject: Software Engineering (Paper II)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	AishwaryaPrashantPusadkar	12
2.	AniketGoutamKamble	12
3.	Anjali MilindPakhidde	14
4.	Ankita Anil Banasure	12
5.	AshwiniMularidharRahngadale	14
6.	DivyaniPravin Salve	12
7.	JayshreeMadhukarRudrakar	12
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30.	Samiksha VinodZade	14
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37.	Swati ArunPandit	12
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43.	VaishaliKishorPaliwal	18
44.	YuganshiAmarsinghBais	12
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Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Session 2021-22
Master of Science (M. Sc.) Semester – III (Computer Science)
Software Engineering (Paper-II)
Unit Test – II**

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

1. Software validation is not achieved through a series of black-box tests that demonstrate conformity with requirements. 2
A. True B. False
2. With each passing day, more of the software has been integrated and more has been demonstrated to work. 2
A. Error diagnosis and correction are simplified B. Integration risk is minimized
C. Progress is easier to assess D. The quality of the end-product is improved
3. Which are the following criteria and corresponding tests are applied for test phases? 2
A. Interface integrity B. Functional validity
C. Information content D. All of these
4. *Basis path testing* is a white-box testing technique first proposed by Tom McCabe. 2
A. True B. False
5. Software engineers and their managers invariably underestimate the effort and skills required to create user interfaces that accommodate the needs of different locales and languages. 2
A. Application accessibility B. Internationalization
C. Both A & B D. none of these
6. System _____ is the primary complaint for many interactive applications. 2
A. response time B. help facilities
C. error handling D. Menu and command labeling
7. Sales people meet with customers and users on a regular basis and can gather information that will help the software team to categorize users and better understand their requirements. 2
A. Marketing input B. Sales input
C. Support input D. User interviews
8. Which terms related to object design are: 2
A. Objects B. Classes
C. Messages D. All of the above
9. _____ are an intuitive way of showing how data is processed by a system. 2
A. System models B. Data-flow models
C. Behavioural models D. Context models
10. A change management process is the set of activities that assess the impact and cost of

changes.
A. True

B. False

2



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

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

**Date: 11/11/2021
Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	AishwaryaPrashantPusadkar	15
2.	AniketGoutamKamble	18
3.	Anjali MilindPakhidde	15
4.	Ankita Anil Banasure	11
5.	AshwiniMularidharRahngadale	19
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14.	Nikita DeoraoWatekar	18
15.	Nitesh Ramesh Wasnik	Absent
16.	PawanRavindraGulghane	12
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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Academic Session 2021-2022
Master of Science(M.Sc.) (Computer Science) (Semester-III)
Neural Network-III
Unit Test - I**

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

1. The network that involves backward links from output to the input and hidden layers is called _____
 - a. Self-organizing map
 - b. Perceptrons
 - c. Recurrent neural network
 - d. Multi layered perceptron
2. What are the requirements of learning laws?
 - a. convergence of weights
 - b. learning time should be as small as possible
 - c. learning should use only local weights
 - d. all of the mentioned
3. How is pattern information distributed?
 - a. It is distributed all across the weights
 - b. It is distributed in localised weights
 - c. It is distributed in certain proactive weights only
 - d. None of the mentioned
4. Negative sign of weight indicates?
 - a. Excitatory input
 - b. Inhibitory input
 - c. Excitatory output
 - d. Inhibitory output
5. When two classes can be separated by a separate line, they are known as?
 - a. Linearly separable
 - b. Linearly inseparable classes
 - c. May be separable or inseparable, it depends on system
 - d. None of the mentioned
6. If the change in weight vector is represented by Δw_{ij} , what does it mean?
 - a. describes the change in weight vector for i th processing unit, taking input vector j th into account
 - b. describes the change in weight vector for j th processing unit, taking input vector i th into account
 - c. describes the change in weight vector for j th & i th processing unit.
 - d. none of the mentioned
7. What are the requirements of learning laws?
 - a. convergence of weights
 - b. learning time should be as small as possible

- c. learning should use only local weights
d. all of the mentioned
8. Why is the XOR problem exceptionally interesting to neural network researchers?
a. Because it can be expressed in a way that allows you to use a neural network
b. Because it is complex binary operation that cannot be solved using neural networks
c. Because it can be solved by a single layer perceptron
d. Because it is the simplest linearly inseparable problem that exists.
9. Activation models are _____.
a. Dynamic
b. Static
c. Deterministic
d. none of the mentioned
10. The process of adjusting the weight is known as?
a. Activation
b. Synchronization
c. Learning
d. none of the mentioned



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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – III (Computer Science) Session 2021-22
Unit Test - II**

Name of Teacher: Mrs. S. S. Khandalkar

Date: 21/12/2021

Subject: Neural Network (Paper III)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	AishwaryaPrashantPusadkar	11
2.	AniketGoutamKamble	16
3.	Anjali MilindPakhidde	Absent
4.	Ankita Anil Banasure	20
5.	AshwiniMularidharRahngadale	18
6.	DivyaniPravin Salve	9
7.	JayshreeMadhukarRudrakar	11

8.	JyotiChandrabhanPatil	11
9.	KajalDnyaneshwarBhoyar	19
10.	KajalShivshankaBante	15
11.	Krishna Rajesh Latta	18
12.	Mansi Sanjay Hingle	Absent
13.	Monika PralhadHadge	7
14.	Nikita DeoraoWatekar	20
15.	Nitesh Ramesh Wasnik	10
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18.	PayalVikramThawkar	Absent
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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Academic Session 2021-2022
Master of Science(M.Sc.) (Computer Science) (Semester-III)
Neural Network (Paper-III)
Unit Test - II**

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

1. Consider a single perceptron with sign activation function. The perceptron is represented by weight vector $[0.4 \ -0.3 \ 0.1]^t$ and a bias $\Theta=0$. If the input vector to the perceptron is $X=[0.2 \ 0.6 \ 0.5]$ then the output of the perceptron is:
 - a. 1
 - b. 0
 - c. -0.05
 - d. -1
2. In Neural network the network capacity is defined as
 - a. The traffic carry capacity of the network
 - b. The total number of nodes in the network
 - c. The number of patterns that can be stored and recalled in a network
 - d. None of the above
3. Which of the following is true for neural networks?
 - (i). The training time depends on the size of the network
 - (ii). Neural networks can be simulated on a conventional computer
 - (iii). Artificial neurons are identical in operation to biological ones
 - a. All of the mentioned
 - b. (ii) is true(i) and (ii) are true
 - c. None of the mentioned
4. Why are linearly separable problems of interest of neural network researchers?
 - a. Because they are the only class of problem that can solve successfully
 - b. Because they are the only class of problem that Perceptron can solve successfully
 - c. Because they are the only mathematical functions that are continue
 - d. Because they are the only mathematical functions you can draw
5. Neural Networks are complex _____ with many parameters.
 - a. Linear Functions
 - b. Nonlinear Functions
 - c. Discrete Functions

- d. Exponential Functions
6. Which of the following is an application of NN(Neural Network)?
- a. Sales forecasting
 - b. Data validation
 - c. Risk management
 - d. All of the mentioned
7. Different learning method does not include:
- a. Memorization
 - b. Analogy
 - c. Deduction
 - d. Introduction
8. Automated vehicle is an example of _____
- a. Supervised learning
 - b. Unsupervised learning
 - c. Active learning
 - d. Reinforcement learning
9. How many types of learning are available in machine learning?
- a. 1
 - b. 2
 - c. 3
 - d. 4
10. Which of the following is the consequence between a node and its predecessors while creating bayesian network?
- a. Conditionally independent
 - b. Functionally dependent
 - c. Both Conditionally dependant & Dependant
 - d. Dependent



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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – III (Computer Science) Session 2021-22
R Unit Test - I**

Name of Teacher: S.B.Raipure

Date: 18/08/2021

Subject: Mobile Computing (Paper IV)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	AishwaryaPrashantPusadkar	17
2.	AniketGoutamKamble	17
3.	Anjali MilindPakhidde	18
4.	Ankita Anil Banasure	19
5.	AshwiniMularidharRahngadale	17
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Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2021-2022
M.Sc. Semester-III Computer Science
Mobile Computing (Paper-IV)
Unit Test - I

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

1. Which mobile communication system introduced the General Packet Radio Service (GPRS)? 2
- a) GSM
 - b) DECT
 - c) IMT-2000
 - d) CDMA One
2. What is the primary function of the Mobile IP Network Layer? 2
- a) Packet delivery and handover management
 - b) Radio interface protocols
 - c) Location management
 - d) Encryption and decryption of data packets
3. Which protocol is commonly used for dynamic configuration of IP addresses in mobile networks? 2
- a) Mobile IP
 - b) DHCP
 - c) ARP
 - d) TCP
4. Which TCP variant is specifically designed for mobile networks to overcome latency and packet loss issues? 2
- a) Indirect TCP
 - b) Snooping TCP
 - c) Mobile TCP
 - d) Conventional TCP/IP Transport
5. What is the primary advantage of using OFDM in mobile communication systems? 2
- a) Increased data transfer rates
 - b) Reduced power consumption
 - c) Improved network security
 - d) Enhanced voice quality
6. What is the primary purpose of spread spectrum in CDMA systems? 2
- a) To increase the signal strength
 - b) To spread the signal across a wider frequency band
 - c) To reduce latency
 - d) To improve voice quality
7. Which mobile communication system introduced the concept of High-speed Circuit Switched Data (HSCSD)? 2
- a) GSM
 - b) DECT
 - c) IMT-2000
 - d) CDMA One
8. Which protocol is used for route optimization in Mobile IP networks? 2
- a) ICMP
 - b) GRE

- c) TCP
- d) IPsec

9. What is the primary advantage of using CDMA-based communication systems? 2

- a) Increased data transfer rates
- b) Improved voice quality
- c) Enhanced security
- d) Reduced interference

10. What is the main function of the Mobile Transport Layer in mobile networks? 2

- a) Packet delivery and handover management
- b) Encryption and decryption of data packets
- c) Dynamic configuration of IP addresses
- d) Management of transport layer protocols



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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – III (Computer Science) Session 2021-22
R Unit Test - II**

Name of Teacher: S.B.Raipure

Date: 20/10/2021

Subject: Mobile Computing (Paper IV)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	AishwaryaPrashantPusadkar	19
2.	AniketGoutamKamble	18
3.	Anjali MilindPakhidde	18
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Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2021-2022
Master of Science (M.sc.) Semester-III (Computer Science)
Mobile Computing (Paper-IV)
Unit Test -II

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

1. Which mechanism ensures that data is delivered efficiently to clients with varying network conditions? 2
 - a) Data Broadcasting
 - b) Data Hoarding
 - c) Data Synchronization
 - d) Data Dissemination

2. What is the primary purpose of selective tuning and indexing techniques in data dissemination? 2
 - a) To reduce network congestion
 - b) To improve query processing speed
 - c) To enhance data security
 - d) To optimize data storage

3. Which protocol is commonly used for synchronizing data between mobile devices and servers? 2
 - a) HTTP
 - b) FTP
 - c) SyncML
 - d) SMTP

4. What language is used for synchronization in mobile computing environments? 2
 - a) SyncML
 - b) HTML
 - c) XML
 - d) Java

5. What is the primary function of a mobile application server? 2
- a) Data caching
 - b) Data synchronization
 - c) Application hosting
 - d) Network security
6. What technology is used for discovering services available on a mobile network? 2
- a) Mobile Agents
 - b) Gateways
 - c) Service Discovery
 - d) Mobile File Systems
7. What markup language is used for creating multimedia presentations in mobile environments? 2
- a) HTML
 - b) XML
 - c) SMIL
 - d) Java
8. Which mobile operating system is commonly used in handheld devices? 2
- a) Windows CE
 - b) Linux
 - c) Symbian OS
 - d) All of the above
9. What is the primary function of WAP (Wireless Application Protocol) in mobile internet connectivity? 2
- a) Network security
 - b) Web browsing
 - c) Email communication
 - d) Voice calling
10. Which programming language is commonly used for developing applications on Java-enabled mobile devices? 2
- a) XML
 - b) Java
 - c) C++
 - d) Python



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 2021-22
R Unit Test - I**

Name of Teacher: S.B.Raipure

Date: 24/02/2022

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

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	18
2.	Afreen Fayyaz Ahmad	16
3.	Akansha Ghanshyam Charde	17
4.	Aleena Azam Ansari	17
5.	Apurva Anil Tiwari	18
6.	Apurva Mohan Pande	15
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29.	Ruchi Rajesh Dwivedi	18
30.	Sakshi Ramdas Bawankule	16

31.	Samruddhi Anil Lokhande	18
32.	Sanket Sharad Hadge	18
33.	Shraddha Ramcharansingh Chandel	16
34.	Smita Purushottam Khorgade	17
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36.	Swapnil Somnath Urkude	18
37.	Trupti Gunsagar Somkuwar	17
38.	Trupti Yogesh Padole	16
39.	Vaishnavi Sanjay Shihhare	20
40.	Vaishnavi Vishnu Shende	13
41.	Vidya Vasataji Waghade	14
42.	Yachana Yashwantrao Bisane	16
43.	Yashashree Devanand Masurkar	17



Signature of the Teacher




Head
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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
Windows Programming using VC++ (Paper-I)
Unit Test -1**

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

1. Which type of dialog blocks the parent window until it's closed? 2
 - a) Modal Dialog
 - b) Modeless Dialog
 - c) Windows Common Dialog
 - d) ActiveX Control Dialog

2. What is the primary purpose of Rich Edit Controls in Windows programming? 2
 - a) Displaying formatted text

- b) Managing graphics
- c) Handling mouse events
- d) Executing scripts

3. Which control is commonly used to create a toolbar in Windows applications? 2

- a) Property Sheets
- b) Rich Edit Control
- c) Tool bar
- d) Status Bars

4. What is the main advantage of using a Document View Architecture in Windows programming? 2

- a) Simplifies the code structure
- b) Improves application performance
- c) Provides better security
- d) Enhances user interface design

5. What is used to separate documents from their views in the Document View Architecture? 2

- a) Rich Edit Controls
- b) Property Sheets
- c) MDI Applications
- d) Separation of Concerns

6. Which library provides support for creating and managing ActiveX controls in Windows applications? 2

- a) MFC Library
- b) ATL Library
- c) WFC Library
- d) GDI Library

7. Which component is responsible for managing memory in Win32 applications? 2

- a) Graphics Device Interface (GDI)
- b) Memory Management
- c) Message Processing
- d) Multithreading

8. What is used to represent graphical images in Windows programming? 2

- a) Bitmaps
- b) Rich Edit Controls
- c) Property Sheets
- d) Menus

9. Which component is responsible for processing messages in a Windows application? 2
a) Graphics Device Interface (GDI)
b) Memory Management
c) Message Processing
d) Multithreading

10. Which feature is used to display the contents of a document before printing it in Windows applications? 2
a) Print Preview
b) Rich Edit Control
c) Property Sheets
d) Menus



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
Department of Computer Science
M. Sc. Semester – II (Computer Science) Session 2021-22
Unit Test - II**

Name of Teacher: S.B.Raipure

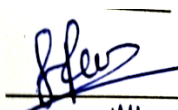
Date: 12/04/2022

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

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	18
2.	Afreen Fayyaz Ahmad	16
3.	Akansha Ghanshyam Charde	17
4.	Aleena Azam Ansari	17
5.	Apurva Anil Tiwari	18
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41.	Vidya Vasataji Waghade	18
42.	Yachana Yashwantrao Bisane	13
43.	Yashashree Devanand Masurkar	14



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 2021-2022
M.sc. Semester-II Computer Science
Windows Programming using VC++ (Paper-I)
Unit Test - II**

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

1. Which library is commonly used for developing ActiveX controls in C++? 2
 - a) MFC
 - b) ATL (Active Template Library)
 - c) Winsock
 - d) OLE DB Templates
2. Which technology provides a standardized way for accessing different types of databases in Windows applications? 2
 - a) ODBC (Open Database Connectivity)
 - b) OLE DB (Object Linking and Embedding Database)
 - c) Data Access Objects (DAO)
 - d) Winsock
3. What is Winsock primarily used for in Windows programming? 2
 - a) Database management
 - b) Internet programming
 - c) Drag and drop functionality
 - d) COM automation
4. Which protocol is commonly used for communication over the Internet? 2
 - a) HTTP
 - b) TCP/IP
 - c) FTP
 - d) UDP
5. Which technology is used for programming web servers in the Windows environment? 2
 - a) Winsock
 - b) ActiveX Document Servers
 - c) TCP/IP
 - d) Microsoft Internet Information Server (IIS)
6. Which library provides support for network programming in Windows? 2
 - a) Winsock
 - b) OLE DB Templates
 - c) ATL
 - d) OLE DB
7. What is the primary purpose of TCP/IP in Internet communication? 2

- a) Handling database connections
- b) Sending emails
- c) Establishing network connections
- d) Rendering web page

8. Which technology allows for seamless integration of different software components in Windows applications? 2

- a) ODBC
- b) OLE
- c) Winsock
- d) TCP/IP

9. Which technology allows for the storage of structured data within a file system? 2

- a) Automation
- b) OLE Embedded Components
- c) Structured Storage
- d) Clipboard Transfer

10. Which technology is used for creating interactive web pages? 2

- a) Winsock
- b) TCP/IP
- c) ActiveX
- d) Dynamic HTML (DHTML)



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 – II (Computer Science) Session 2021-22
R Unit Test - I**

Name of Teacher: Dr. M. T. Wanjari

Date: 22/04/2022

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

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	18
2.	Afreen Fayyaz Ahmad	16
3.	Akansha Ghanshyam Charde	17
4.	Aleena Azam Ansari	17
5.	Apurva Anil Tiwari	18
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Signature of the Teacher

Head
Department of Computer Science

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

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Session 2021-22
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]

Choose the correct option and answer the following:

1. Which theorem is used to demonstrate the existence of undecidable problems in computational theory? 2

- a) Rice's Theorem b) Pumping Lemma
c) Greibach's Theorem d) Church's Hypothesis

2. Which property characterizes the relationship between different classes of languages in Chomsky hierarchy? 2

- a) Closure Properties b) Pumping Lemma
c) Decision Algorithms d) Turing Machines
3. What is the purpose of the pumping lemma for regular sets? 2
- a) To prove the existence of context-free languages
b) To identify undecidable problems
c) To demonstrate the regularity of certain languages
d) To simplify context-free grammars
4. Which type of automaton is capable of recognizing context-free languages? 2
- a) Push-Down Automaton (PDA) b) Finite State Automaton (FSA)
c) Deterministic Finite Automaton (DFA) d) Non-deterministic Finite Automaton (NFA)
5. Which form of context-free grammars allows productions to have only one non-terminal on the right-hand side? 2
- a) Chomsky Normal Form (CNF) b) Greibach Normal Form (GNF)
c) Backus-Naur Form (BNF) d) Regular Expression Form (REF)
6. What is the primary characteristic of context-sensitive languages? 2
- a) They can be recognized by a finite automaton
b) They are always regular languages
c) They require a Turing Machine to recognize
d) They have a context-free grammar
7. Which property characterizes the relationship between regular grammars and unrestricted grammars? 2
- a) Closure Properties b) Pumping Lemma
c) Decision Algorithms d) Turing Machines
8. What is the primary characteristic of recursively enumerable problems? 2
- a) They can be solved by a Turing Machine
b) They are always decidable
c) They have a finite number of states in their automaton
d) They have a deterministic solution algorithm
9. What is the primary purpose of the Drag and Drop feature in finite automation? 2
- a) To simplify the construction of finite automata
b) To optimize the decision algorithms for regular sets

- c) To facilitate the transfer of data between different components
d) To handle inherently ambiguous context-free languages

10. Which theorem is used to prove the undecidability of certain properties of context-free languages? 2

- a) Rice's Theorem b) Pumping Lemma
c) Greibach's Theorem d) Church's Hypothesis




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 2021-22
R Unit Test - II

Name of Teacher: Dr. M. T. Wanjari

Date: 10/05/2022

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

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	18
2.	Afreen Fayyaz Ahmad	14
3.	Akansha Ghanshyam Charde	10
4.	Aleena Azam Ansari	14
5.	Apurva Anil Tiwari	18
6.	Apurva Mohan Pande	16
7.	Ashwini Surendra Dhenge	12
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9.	Divya Vilas Kawale	12
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Congress Nagar, Nagpur

8. A top down parser generates _____. 2
 A. Rightmost Derivation B. Right most derivation in reverse
 C. Left most derivation D. Left most derivation in reverse
9. Running time of a program depends on addressing mode. 2
 A. True B. False
10. Which representation of a link list structure for the parse tree. 2
 A. implicit B. explicit
 C. Both A & B D. None of these



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 2021-22
 R Unit Test - I**

Name of Teacher: N.S.Katole

Date: 19/03/2022

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

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	14
2.	Afreen Fayyaz Ahmad	13
3.	Akansha Ghanshyam Charde	16
4.	Aleena Azam Ansari	13
5.	Apurva Anil Tiwari	17
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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
Department of Computer Science
M.Sc. Semester-II (Computer Science) Session 2021-2022
Computer Architecture & Organization (Paper III)
Unit Test - I**

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

1. Which principle of computer design emphasizes the interaction between software and hardware? 2

- A) Von Neumann architecture
- B) Moore's Law
- C) Turing completeness
- D) Software abstraction

2. In computer architecture, what is the purpose of layers? 2

- A) To separate the hardware and software components
- B) To enhance performance of the CPU
- C) To increase memory capacity
- D) To improve networking capabilities

3. Which component of the CPU is responsible for executing machine language instructions? 2

- A) Arithmetic Logic Unit (ALU)
- B) Control Unit
- C) Cache Memory
- D) Registers

4. What are the various addressing modes used in computer architecture primarily for? 2

- A) Managing CPU registers
- B) Executing machine language instructions
- C) Accessing memory operands

D) Implementing virtual memory

5. Which factor primarily influences the selection of an instruction set architecture (ISA)? 2

- A) Performance requirements
- B) Cost considerations
- C) Availability of software tools
- D) Compatibility with existing systems

6. What is the purpose of the instruction cycle in CPU operation? 2

- A) To decode instructions
- B) To fetch instructions
- C) To execute instructions
- D) To store data

7. In CPU design, what distinguishes microprogramming from hardwired control? 2

- A) Microprogramming uses a software approach, while hardwired control is hardware-based.
- B) Microprogramming is faster than hardwired control.
- C) Hardwired control is more flexible than microprogramming.
- D) Hardwired control requires less memory than microprogramming.

8. What is a key advantage of pipelining in CPU design? 2

- A) Reduced instruction set complexity
- B) Improved parallelism and throughput
- C) Simplified data path design
- D) Lower power consumption

9. Which type of processor architecture typically employs a Reduced Instruction Set Computing (RISC) approach? 2

- A) Mainframe computers
- B) Personal computers (PCs)
- C) Mobile devices
- D) Supercomputers

10. What is a characteristic feature of superscalar processors? 2

- A) They execute only one instruction at a time.
- B) They rely solely on hardwired control.
- C) They exploit instruction-level parallelism.
- D) They have a small cache memory size.

Signature of the Teacher



**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 – II (Computer Science) Session 2021-22
R Unit Test - II**

Name of Teacher: N.S.Katole

Date: 28/04/2022

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

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	17
2.	Afreen Fayyaz Ahmad	Absent
3.	Akansha Ghanshyam Charde	16
4.	Aleena Azam Ansari	Absent
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28.	Ritika Madan Ganvir	Absent
29.	Ruchi Rajesh Dwivedi	12
30.	Sakshi Ramdas Bawankule	16
31.	Samruddhi Anil Lokhande	13
32.	Sanket Sharad Hadge	17
33.	Shraddha Ramcharansingh Chandel	12
34.	Smita Purushottam Khorgade	13
35.	Suraj Wasudeo Harode	12
36.	Swapnil Somnath Urkude	18
37.	Trupti Gunsagar Somkuwar	17
38.	Trupti Yogesh Padole	17
39.	Vaishnavi Sanjay Shivhare	Absent
40.	Vaishnavi Vishnu Shende	14
41.	Vidya Vasataji Waghade	13
42.	Yachana Yashwantrao Bisane	16
43.	Yashashree Devanand Masurkar	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 2021-2022
Computer Architecture & Organization (Paper III)
Unit Test - II**

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

1. Which of the following is a non-volatile storage technology? 2
- A) DRAM
 - B) SRAM
 - C) NAND Flash
 - D) DDR
2. In memory array organization, what is the purpose of interleaving? 2
- A) To increase memory capacity
 - B) To improve memory access time
 - C) To reduce power consumption
 - D) To enhance memory durability
3. Cache memory primarily serves to: 2
- A) Increase the size of main memory
 - B) Reduce the latency of memory accesses
 - C) Store permanent data
 - D) Manage I/O devices
4. Virtual memory is implemented primarily to: 2
- A) Increase the size of physical memory
 - B) Reduce the size of the storage subsystem
 - C) Allow for efficient memory sharing among processes
 - D) Improve CPU processing speed
5. Which component facilitates communication between the CPU and I/O devices?
- A) Bus Interface
 - B) Cache Memory
 - C) ALU
 - D) Control Unit
6. Which of the following is a data transfer technique commonly used in I/O processing? 2
- A) Interrupt-driven I/O
 - B) Polling
 - C) Cache Coherency
 - D) Memory Mapping
7. I/O interrupts are primarily used to: 2
- A) Improve cache performance
 - B) Enable communication between devices
 - C) Control memory access
 - D) Execute instructions faster
8. SPECmarks are primarily used for: 2
- A) Evaluating processor performance
 - B) Benchmarking memory subsystems

- C) Testing network speed
- D) Analyzing disk storage capacity

9. Transaction Processing Benchmarks are used to evaluate the performance of: 2

- A) Graphics processing units (GPUs)
- B) Database management systems (DBMS)
- C) Operating systems (OS)
- D) Network protocols

10. Which of the following architectural aids is commonly used to improve memory performance? 2

- A) Cache Memory
- B) ALU
- C) Control Unit
- D) Registers



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S.S.E.S. Am's Science College,
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R Unit Test - I**Name of Teacher: Mrs. S. S. Khanadalkar****Date: 21/03/2022****Subject: Computer Graphics (Paper-IV)****Maximum Marks: 20**

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

36.	Swapnil Somnath Urkude	7
37.	Trupti Gunsagar Somkuwar	13
38.	Trupti Yogesh Padole	17
39.	Vaishnavi Sanjay Shivhare	9
40.	Vaishnavi Vishnu Shende	16
41.	Vidya Vasataji Waghade	16
42.	Yachana Yashwantrao Bisane	18
43.	Yashashree Devanand Masurkar	15



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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Academic Session 2021-2022
Master of Science(M.Sc.) (Computer Science) (Semester-II)
Computer Graphics-IV
Unit Test - I**

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

- In Bresenham's line algorithm, there are certain conditions for deciding the successive parameters. Of the distances $d1 < d2$ then decision parameter P_k is which of the following?
 - Positive
 - Equal
 - Negative
 - Can be any of the above
- Which of the following line-generating algorithms is the most effective and efficient?
 - Midpoint algorithm
 - Bresenham's Line algorithm
 - DDA algorithm
 - None of the mentioned above
- The method which used either Δx or Δy , whichever is larger, is chosen as one raster unit to draw the line this algorithm is called?
 - DDA Line Algorithm
 - Midpoint Line Algorithm
 - Bresenham's Line Algorithm
 - Generalized Bresenham's Algorithm

4. "The Digital Differential Analyzer (DDA) algorithm is an incremental method of scan conversion of line."Based upon the above statement, determine whether the following condition is true or false.
"The DDA algorithm uses the results of previous step for determining the value of the next step."
 - a. True
 - b. False
5. What are the fundamental characteristics of a straight line?
 - a. Width
 - b. Color
 - c. Type
 - d. All of the mentioned above
6. A beam of electrons emitted by an electron gun is also called as _____.
 - a. electric rays
 - b. magnetic rays.
 - c. cathode rays.
 - d. infra-red rays.
7. In beam penetration method, _____ and _____ layers of phosphor are usually used.
 - a. red and green.
 - b. blue and green.
 - c. yellow and green
 - d. orange and green.
8. Picture definition is stored in _____ buffer area in memory.
 - a. frame.
 - b. outer.
 - c. refresh.
 - d. restore.
9. The _____ shadow-mask method, is commonly used in color CRT systems.
 - a. delta-delta.
 - b. beta-beta.
 - c. delta-beta.
 - d. alpha-alpha.
10. In flat panel display the emissive displays are devices that converts electric energy into _____.
 - a. obscurity
 - b. stimulating energy.
 - c. light energy.

non emitting energy.



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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Department of Computer Science
M. Sc. Semester – II (Computer Science) Session 2021-22
Unit Test - II**

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

**Date: 23/04/2022
Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	Achal Dipak Ghagi	17
2.	Afreen Fayyaz Ahmad	18
3.	Akansha Ghanshyam Charde	13
4.	Aleena Azam Ansari	11
5.	Apurva Anil Tiwari	16
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41.	Vidya Vasataji Waghade	16
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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Academic Session 2021-2022
Master of Science(M.Sc.) (Computer Science) (Semester-II)
Computer Graphics-IV
Unit Test - II**

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

- One of the oldest and most popular line clipping procedure is _____.
 - Liang-Barsky Line Clipping.
 - Nicholl-Lee-Nicholl Line Clipping.
 - Cohen-Sutherland Line Clipping.
 - Line Clipping musing Nonrectangular Clip window.
- The two-dimensional viewing transformation is simply referred to as the window-to-viewport transformation or the _____.
 - viewing pipeline.
 - transformation.
 - windowing transformation.
 - world coordinate.
- The depth-buffer method is also called as _____.

- a. A-buffer.
 - b. C-buffer
 - c. Z-buffer
 - d. W-buffer.
4. _____ for a three-dimensional graphics object is a set of surface
- a. polygons that enclose the object interior.
 - b. Surface rendering.
 - c. Space partitioning representations.
 - d. Surface identification. Boundary representations.
5. The scaling transformation alters the size of an _____.
- a. vector
 - b. edge
 - c. side
 - d. object
6. An illumination model is also called as _____.
- a. lighting model.
 - b. surface model.
 - c. shading model.
 - d. rendering model.
7. The representation of the amount of variation in object detail is represented with _____.
- a. fractal geometry.
 - b. fractal dimension.
 - c. fractal definition.
 - d. fractal generation.
8. The three color parameters in HLS color model are _____.
- a. hue, lightness and saturation.
 - b. height, lightness and saturation.
 - c. hue, light and saturation.
 - d. hue, lightness and scaling.
9. When objects are to be displayed with color or shaded surfaces we apply _____.
- a. object rendering.
 - b. surface rendering
 - c. view rendering.
 - d. parameter rendering.
10. The term _____ is used to refer collectively two properties describing color characteristics purity and dominant frequency.
- a. white light source.
 - b. chromaticity
 - c. purity
 - d. saturation



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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 2021-22
R Unit Test - I**

**Name of Teacher: Mrs. S. S. Khanadalkar
Subject: Dat Mining (Paper-I)**

**Date: 21/03/2022
Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	AishwaryaPrashantPusadkar	19
2.	AniketGoutamKamble	15
3.	Anjali MilindPakhidde	Absent
4.	Ankita Anil Banasure	18
5.	AshwiniMularidharRahngadale	18
6.	DivyaniPravin Salve	19
7.	JayshreeMadhukarRudrakar	15
8.	JyotiChandrabhanPatil	11
9.	KajalDnyaneshwarBhoyar	Absent
10.	KajalShivshankaBante	12
11.	Krishna Rajesh Latta	14
12.	Mansi Sanjay Hingle	Absent
13.	Monika PralhadHadge	17
14.	Nikita DeoraoWatekar	18
15.	Nitesh Ramesh Wasnik	10
16.	PawanRavindraGulghane	13
17.	PayalParmeshwarHatwar	19
18.	PayalVikramThawkar	Absent
19.	PrachiManojBarsagade	20
20.	PrachiVinodWasnik	9
21.	PrajaktaTanajiLakhmapure	19
22.	PranaliRajuIkhar	12
23.	Pranay Vijay Shahare	8
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25.	PriyankaDhananjayPandit	16
26.	PriyankaLateshMalkan	17
27.	PurvaUjwalTijare	Absent
28.	ReenaNarendraShende	16
29.	Ruchika Vijay Motghare	11
30.	SamikshaVinodZade	14
31.	SayaliRavindraWankhede	12
32.	ShivaniAmbirraoBagal	20
33.	ShivaniAnilraoShende	17
34.	Shrutika Ganesh Sathwane	20
35.	ShubhangiSubhashLange war	12
36.	Shweta Suresh Kapse	9
37.	Swati ArunPandit	8
38.	SwitiRanjeetKoche	Absent
39.	TejashreeManojWekhande	18
40.	TejaswiniShantaramRewatkar	10
41.	Tejaswini VijayraoHirudkar	9
42.	UrvashiMegandasSonboir	20
43.	VaishaliKishorPaliwal	13
44.	YuganshiAmarsinghBais	12
45.	YuktaDhruwakumarHajare	12



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 2021-2022**

Master of science(M.sc.) Semester-IV (Computer Science)
Data Mining (Paper-I)
Unit Test -I

[Time: 1 Hour]

[Maximum Marks:20]

Choose the correct option and answer the following:

1. Data Mining System Classification consists of?
 - a. Database Technology
 - b. Machine Learning
 - c. Information Science
 - d. All of the above
2. "Efficiency and scalability of data mining algorithms" issues comes under?
 - a. Mining Methodology and User Interaction Issues
 - b. Performance Issues
 - c. Diverse Data Types Issues
 - d. None of the above
3. Which of the following is correct application of data mining?
 - a. Market Analysis and Management
 - b. Corporate Analysis & Risk Management
 - c. Fraud Detection
 - d. All of the above
4. What is true about data mining?
 - a. Data Mining is defined as the procedure of extracting information from huge sets of data
 - b. Data mining also involves other processes such as Data Cleaning, Data Integration, Data Transformation
 - c. Data mining is the procedure of mining knowledge from data.
 - d. All of the above
5. _____ refers to the description and model regularities or trends for objects whose behavior changes over time.
 - a. Outlier Analysis
 - b. Evolution Analysis
 - c. Prediction
 - d. Classification
6. Which of the following statement is true about the classification?
 - a. It is a measure of accuracy
 - b. It is a subdivision of a set
 - c. It is the task of assigning a classification
 - d. None of the above
7. The analysis performed to uncover interesting statistical correlations between associated-attribute-value pairs is called?
 - a. Mining of Association
 - b. Mining of Clusters
 - c. Mining of Correlations
 - d. None of the above
8. The important characteristics of structured data are
 - a. Sparsity, Resolution, Distribution, Tuples
 - b. Sparsity, Centroid, Distribution , Dimensionality

- c. Resolution, Distribution, Dimensionality ,Objects
d. Dimensionality, Sparsity, Resolution, Distribution
9. Classification rules are extracted from _____.
- a. root node.
b. decision tree.
c. siblings.
d. branches.
10. In Data Characterization, class under study is called as?
- a. Study Class
b. Intial Class
c. Target Class
d. Final Class



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 2021-22
R Unit Test - II**

Name of Teacher: Mrs. S. S. Khanadalkar

Date: 27/04/2022

Subject: Dat Mining (Paper-I)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	AishwaryaPrashantPusadkar	19
2.	AniketGoutamKamble	14
3.	Anjali MilindPakhidde	10
4.	Ankita Anil Banasure	14
5.	AshwiniMularidharRahngadale	19
6.	DivyaniPravin Salve	14
7.	JayshreeMadhukarRudrakar	13
8.	JyotiChandrabhanPatil	12
9.	KajalDnyaneshwarBhoyar	16
10.	KajalShivshankaBante	15

11.	Krishna Rajesh Latta	18
12.	Mansi Sanjay Hingle	14
13.	Monika PralhadHadge	13
14.	Nikita DeoraoWatekar	19
15.	Nitesh Ramesh Wasnik	Absent
16.	PawanRavindraGulghane	12
17.	PayalParmeshwarHatwar	19
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21.	PrajaktaTanajiLakhmapure	17
22.	PranaliRajulkhar	14
23.	Pranay Vijay Shahare	Absent
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43.	VaishaliKishorPaliwal	18
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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
M.sc. Semester-IV (Computer Science)
Data Mining (Paper-I)
Unit Test - II**

Time: 1 Hour]

[Maximum Marks:20

Choose the correct option and answer the following:

- A. _____ is the output of KDD.
- Query
 - Useful Information
 - Data
 - information
- B. How to define Classification accuracy?
- A subdivision of a set of examples into a number of classes
 - The task of assigning a classification to a set of examples
 - Measure of the accuracy of the classification of a concept that is given by a certain theory
 - None of these
- C. Which of the following statement is true about the classification?
- It is a measure of accuracy
 - It is a subdivision of a set
 - It is the task of assigning a classification
 - None of the above
- D. The classification of the data mining system involves:
- Database technology
 - Information Science
 - Machine learning
 - All of the above
- E. Bayesian classifiers is
- A class of learning algorithm that tries to find an optimum classification of a set of examples using the probabilistic theory.
 - Any mechanism employed by a learning system to constrain the search space of a hypothesis.
 - An approach to the design of learning algorithms that is inspired by the fact that when people encounter new situations, they often explain them by reference to familiar experiences, adapting the explanations to fit the new situation.
 - None of these
- F. Naive prediction is

- a. A class of learning algorithms that try to derive a Prolog program from examples.
 b. A table with n independent attributes can be seen as an n- dimensional space.
 c. A prediction made using an extremely simple method, such as always predicting the same output.
 d. None of these
- G. In _____ each cluster is represented by one of the objects of the cluster located near the center.
 a. k-medoid.
 b. k-means.
 c. stirr.
 d. rock.
- H. K-means clustering consists of a number of iterations and not deterministic.
 a. True
 b. False
- I. **Which clustering technique requires a merging approach?**
 a. Partitional
 b. Hierarchical
 c. Naive Bayes
 d. None of the mentioned
- J. Find odd man out
 a. DBSCAN
 b. K-mean
 c. PAM
 d. None of these



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**Head
 Department of Computer Science**

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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 2021-22
 R Unit Test - I**

Name of Teacher: S.D.Mohod

Date: 11/03/2022

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

Sr. No.	Name of Students	Obtained Marks
1.	AishwaryaPrashantPusadkar	19
2.	AniketGoutamKamble	14

3.	Anjali MilindPakhidde	10
4.	Ankita Anil Banasure	14
5.	AshwiniMularidharRahngadale	19
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**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-1**

[Time: 1 Hour]

[MaximumMarks:20]

Choose the correct option and answer the following:

1. What is Artificial intelligence?2
 - a) Putting your intelligence into Computer
 - b) Programming with your own intelligence
 - c) Making a Machine intelligent
 - d) Playing a Game
2. Which rule is applied for the Simple reflex agent?2
 - a. Simple-action rule
 - b. Simple &Condition-action rule
 - c. Condition-action rule
 - d. None of the above
3. Which is not the commonly used programming language for AI? 2
 - a) PROLOG
 - b) Java
 - c) LISP
 - d) Perl
4. The application/applications of Artificial Intelligence is/are 2
 - a. Expert Systems
 - b. Gaming
 - c. Vision Systems
 - d. All of the above

5. Which instruments are used for perceiving and acting upon the environment? 2
- a) Sensors and Actuators
 - b) Sensors
 - c) Perceiver
 - d) None of the mentioned
6. What is the main task of a problem-solving agent? 2
- a) Solve the given problem and reach to goal
 - b) To find out which sequence of action will get it to the goal state
 - c) All of the mentioned
 - d) None of the mentioned
7. What is state space? 2
- a) The whole problem
 - b) Your Definition to a problem
 - c) Problem you design
 - d) Representing your problem with variable and parameter
8. A problem in a search space is defined by one of these state. 2
- a) Initial state
 - b) Last state
 - c) Intermediate state
 - d) All of the mentioned
9. The process of removing detail from a given state representation is called 2
- a) Extraction
 - b) Abstraction
 - c) Information Retrieval
 - d) Mining of data
10. A problem solving approach works well for 2
- a) 8-Puzzle problem
 - b) 8-queen problem
 - c) Finding an optimal path from a given source to a destination
 - d) Mars Hover (Robot Navigation)

Signature of the Teacher



Head

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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**

R Unit Test - II**Name of Teacher: S.D.Mohod****Date: 23/04/2022****Subject: Artificial Intelligence and Expert System (Paper-II)****Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	AishwaryaPrashantPusadkar	16
2.	AniketGoutamKamble	Absent
3.	Anjali MilindPakhidde	12
4.	Ankita Anil Banasure	11
5.	AshwiniMularidharRahngadale	16
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43.	VaishaliKishorPaliwal	17
44.	YuganshiAmarsinghBais	Absent
45.	YuktaDhruwakumarHajare	14

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 2021-2022
Artificial Intelligence & Expert System (Paper II)
Unit Test - II**

Time: 30min]

[Maximum Marks: 20

Choose the correct option and answer the following:

1. There exist only two types of quantifiers, Universal Quantification and Existential Quantification. 2

- a) True
- b) False

2. Translate the following statement into FOL.

“For every a, if a is a philosopher, then a is a scholar” 2

- a) $\forall a$ philosopher(a) scholar(a)
- b) $\exists a$ philosopher(a) scholar(a)
- c) All of the mentioned
- d) None of the mentioned

3. _____ is used to demonstrate, on a purely syntactic basis, that one formula is a logical consequence of another formula. 2

- a) Deductive Systems
- b) Inductive Systems
- c) Reasoning with Knowledge Based Systems
- d) Search Based Systems

4. First Order Logic is also known as 2

- a) First Order Predicate Calculus
- b) Quantification Theory
- c) Lower Order Calculus
- d) All of the mentioned

5. Which condition is used to cease the growth of forward chaining? 2

- a) Atomic sentences
- b) Complex sentences
- c) No further inference
- d) All of the mentioned

6. What is the name for information sent from robot sensors to robot controllers? 2

- a) temperature
- b) pressure
- c) feedback
- d) signal

7. Which of the following terms refers to the rotational motion of a robot arm? 2

- a) swivel
- b) axle
- c) retrograde
- d) roll

8. What is the name for space inside which a robot unit operates? 2

- a) environment
- b) spatial base
- c) work envelope
- d) exclusion zone

9. Which of the following terms IS NOT one of the five basic parts of a robot? 2

- a) peripheral tools
- b) end effectors
- c) controller
- d) drive

10. What are periodic changes in pressure that propagate through the air? 2

- a) Air waves
- b) Sound waves
- c) Rate
- d) None of the mentioned



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
R Unit Test - I**

Name of Teacher: S.V.Dhakate

Date: 17/02/2022

Subject: Embedded System (Paper-III)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	AishwaryaPrashantPusadkar	16
2.	AniketGoutamKamble	Absent
3.	Anjali MilindPakhidde	12
4.	Ankita Anil Banasure	11
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42.	Urvashi Megandas Sonboir	17
43.	Vaishali Kishor Paliwal	17
44.	Yuganshi Amarsingh Bais	Absent
45.	Yukta Dhruwakumar Hajare	14

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Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Academic Session 2021-2022
Master of Science(M.Sc.) (Computer Science) (Semester-IV)
Embedded System -III

Unit Test - I

Time: 30min]

[Maximum Marks: 20

Choose the correct option and answer the following:

1. What is the purpose of a Real-Time Clock in embedded systems? 2
 - a) To measure the execution time of a program
 - b) To synchronize the system with external time standards
 - c) To perform arithmetic calculations
 - d) To store user data permanently

2. Which communication protocol is commonly used in wireless embedded systems? 2
 - a) Ethernet
 - b) USB
 - c) Bluetooth
 - d) HDMI

3. Which of the following is a parallel communication bus protocol? 2
 - a) USB
 - b) SPI
 - c) I2C
 - d) UART

4. Which device is used for performing direct memory access (DMA) in embedded systems? 2
 - a) Timer
 - b) CPU
 - c) DMA controller
 - d) Real-Time Clock

5. Which programming language is typically used for low-level programming in embedded systems? 2
 - a) Java
 - b) C
 - c) Python
 - d) Ruby

6. What is the purpose of a Header file in C programming? 2
 - a) To declare functions and macros
 - b) To include source code files
 - c) To define data types
 - d) To manage memory allocation

7. Which modeling technique is commonly used for representing multiprocessor systems? 2
 - a) Data Flow Graphs
 - b) Finite State Machines
 - c) Unified Modeling Language (UML)
 - d) Object-Oriented Programming

8. What is the primary role of a Device Driver in an embedded system? 2

- a) To manage the system clock
- b) To control peripheral devices
- c) To interpret user input
- d) To generate random numbers

9. Which memory type is non-volatile and retains data even when power is turned off? 2

- a) RAM
- b) ROM
- c) EEPROM
- d) Cache memory

10. Which bus protocol is commonly used for connecting peripheral devices in a computer system? 2

- a) ISA
- b) USB
- c) HDMI
- d) SATA



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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 2021-22
R Unit Test - II**

Name of Teacher: S.V.Dhakate

Date: 08/05/2022

Subject: Embedded System (Paper-III)

Maximum Marks: 20

Sr. No.	Name of Students	Obtained Marks
1.	AishwaryaPrashantPusadkar	12
2.	AniketGoutamKamble	16
3.	Anjali MilindPakhidde	Absent
4.	Ankita Anil Banasure	12
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Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Academic Session 2021-2022

Master of Science(M.Sc.) (Computer Science) (Semester-IV)
Embedded System -III
Unit Test - II

Time: 30 min]

[Maximum Marks: 20

Choose the correct option and answer the following:

1. What is the role of simulators in testing embedded software? 2
 - a) To test software on target hardware
 - b) To emulate real-world conditions
 - c) To analyze code coverage
 - d) To automate test cases

2. Which type of tool is used for debugging embedded software? 2
 - a) Compiler
 - b) Profiler
 - c) Debugger
 - d) Linker

3. Which of the following is NOT an issue in hardware-software co-design? 2
 - a) Power consumption optimization
 - b) Memory management
 - c) Communication between hardware and software
 - d) User interface design

4. What is the purpose of a message queue in interprocess communication? 2
 - a) To synchronize access to shared resources
 - b) To pass messages between processes
 - c) To allocate memory dynamically
 - d) To manage device drivers

5. Which real-time operating system is commonly used in aerospace applications? 2
 - a) Linux
 - b) VxWorks
 - c) Windows CE
 - d) OSEK

6. What is the role of tasks in an RTOS environment? 2

- a) Managing interrupts
- b) Allocating memory
- c) Executing application code
- d) Handling device drivers

7. Which testing technique is used to evaluate the performance of embedded software under heavy loads? 2

- a) Load testing
- b) Stress testing
- c) Boundary testing
- d) Integration testing

8. Which tool is commonly used for debugging embedded software in real-time? 2

- a) GDB
- b) Valgrind
- c) Eclipse
- d) Wireshark

9. What is the primary function of the event functions in an RTOS? 2

- a) Handling device interrupts
- b) Synchronizing access to shared resources
- c) Managing memory allocation
- d) Responding to external events

10. Which real-time operating system is commonly used in medical devices? 2

- a) Linux
- b) VxWorks
- c) Windows CE
- d) OSEK



Signature of the Teacher

**Head
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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
R Unit Test - I**

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

**Date: 15/04/2022
Maximum Marks: 20**

Sr. No.	Name of Students	Obtained Marks
1.	AishwaryaPrashantPusadkar	12
2.	AniketGoutamKamble	10
3.	Anjali MilindPakhidde	14
4.	Ankita Anil Banasure	12
5.	AshwiniMularidharRahngadale	14
6.	DivyaniPravin Salve	12
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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Session 2021-22**

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

Time: 30 min.]

[Maximum Marks: 20

Choose the correct option and answer the following:

1. A parallelism based on increasing processor word size.
- A. Increasing B. Count based
C. Bit based D. Bit level

2

- 2.The Scope of Parallel Computing. 2
 A. Applications in Engineering and Design B. Scientific Applications
 C. Commercial Application D. All of above
- 3.NEMS Stands for_____. 2
 A. nano electro-mechanical system B. newly electric-mechanical system
 C. nano electric-mechanical system D. None of these
- 4.UMA Stands for_____. 2
 A. Uniform memory access B. Unified memory access
 C. Unique memory access
 D. None of above
- 5.Interconnection networks can be classified as. 2
 A. static B. dynamic
 C. Single D. double
- 6.The primary forms of data exchange between parallel tasks are_____. 2
 A. Accessing a shared data space B. Exchanging messages.
 C. Accessing a address space D. block data
- 7.Mappings are determined by 2
 A. task dependency B. Program dependency
 C. task interaction graphs D. load balancing
- 8.Speculative Decomposition consist of 2
 A. conservative approaches B. optimistic approaches
 C. Optimization problems D. Divide and Conquer strategy
- 9.Group communication operations are built using point-to-point messaging primitives. 2
 A. True B. False
- 10.Is scatter operation is same as Broadcast? 2
 A. True B. False



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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 2021-22
R 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.	AishwaryaPrashantPusadkar	14
2.	AniketGoutamKamble	10
3.	Anjali MilindPakhidde	12
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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Session 2021-22
Master of Science (M. Sc.) Semester – IV (Computer Science)
Parallel Computing (Paper-IV)
Unit Test – II**

Time: 30 min.]

[Maximum Marks: 20

Choose the correct option and answer the following:

1. A *parallel system* is the combination of an algorithm and the parallel architecture on which it is implemented. 2

A. True B. False

2. What are the collective communication and computation operations? 2

A. Barrier B. Broadcast
C. Reduction D. Deadlock

3. What are the numbers of metrics used based on the desired outcome of performance analysis? 2

A. Efficiency B. Speedup
C. Idling D. Interprocess

4. Can be Single Program Multiple Data programs? 2

- A. synchronous
C. completely asynchronous
- B. loosely synchronous
D. asynchronous

5. _____ is a measure that captures the relative benefit of solving a problem in parallel. 2

- A. Execution time
C. Speedup
- B. Parallel Overhead
D. None of these

6. The _____ returns only after the requested message has been received and copied into the buffer. 2

- A. MPI_Send
C. MPI_Recv
- B. MPI_comm
D. none of these

7. MPI views the processes as being arranged in a _____ topology and uses a linear ordering to number the processes. 2

- A. one-dimensional
C. multi-dimensional
- B. two-dimensional
D. all of these

8. Match the pair 2

- | | |
|--------------|----------------|
| A. Barrier | 1. MPI_Scan |
| B. Broadcast | 2. MPI_Reduce |
| C. Reduction | 3. MPI_Bcast |
| D. Prefix | 4. MPI_Barrier |

9. Parallel system is cost-optimal if and only if its overhead function does not asymptotically exceed the problem size. 2

- A. True
B. False

10. Programs are designed and tested for smaller problems on fewer processing elements. 2

- A. True
B. False



Signature of the Teacher

Head

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