

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.
BCA I Semester-II (2022-23)
Programming in c++ Paper-I
Result of Unit Test held on 18/03/2022 on Unit I and
UNIT II**

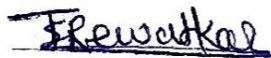
Name of the teacher: T.S.Rewatkar

Sr. No.	Name	Marks out of 30
1	AACHAL RAJNAND ARVERKAR	4
2	AAYUSH RAJENDRA TAREKAR	10
3	ABHISHEK SANJAY THOKAL	4
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120	YOG RAMESH PATLE	26



Signature of the teacher



Head of the Department

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
Bachelor of Computer Application (B.C.A) (Semester-II)
Programming in c++Paper-I
UNIT TEST on Unit I - II**

[Time: 45 min.]

[Maximum Marks: 30]

UNIT-I

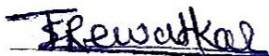
QUE. 1. SOLVE ANY THREE

1. What is object ? Explain the features of object oriented programming. 5
2. How will you define member function in 'C++' ? Explain. OR 5
3. Explain the following : (i) Public 5
(ii) Private
(iii) Protected.
4. How will you access member functions within a class ? 5
Explain with example

UNIT-II

QUE. 1. SOLVE ANY THREE

1. What is constructor ? Explain syntax for defining constructor with suitable example. 5
2. What is operator overloading ? Explain rules for operator overloading. 5
3. Write a program to add two complex numbers by overloading binary operator +. 5
4. What is Destructor ? Explain features of destructor using suitable example. 5



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SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.

BCA I Semester-II (2022-23)

Programming in c++ Paper-I

Result of Unit Test held on 19/04/2023 on Unit III
and Unit IV

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118	YASH PRAVIN KHARABE	15
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120	YOG RAMESH PATLE	4

Frewalkar

Signature of the teacher

[Handwritten Signature]

Head of the Department

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
Bachelor of Computer Application (B.C.A) (Semester-II)
Programming in c++Paper-I
UNIT TEST on Unit III - IV**

[Time: 45 min.]

[Maximum Marks: 30]

UNIT-III

QUE. 1. SOLVE ANY THREE

- (a) What is dynamic object ? Write a program to illustrate the use of dynamic object. 5
- (b) What is inheritance ? Explain single inheritance with a suitable example. 5
- (c) Write a program to illustrate the use of this pointer. 5
- (d) Explain multilevel inheritance with syntax and example. 5

UNIT-IV

QUE. 1. SOLVE ANY THREE

- (a) What is virtual function ? Give rules of defining virtual function. 5
- (b) Explain fault tolerant design techniques. 5
- (c) Write a program in C++ illustrating the use of pure virtual function. 5
- (d) What is exception handling ? Give list of exceptions 5



Signature of the teacher





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**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**

BCA-I Semester-II (2022-23)

System Analysis and Design

Paper-II

Result of Unit Test held on: 26/02/2022

Unit I and UNIT II

Name of the Teacher: Ms. Puja M. Dadhe

Sr. No.	Name	Marks out of 30
1	AACHAL RAJNAND ARVERKAR	23
2	AAYUSH RAJENDRA TAREKAR	27
3	ABHISHEK SANJAY THOKAL	AA
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Academic Session 2022-2023
Bachelor of computer Application (BCA) (Semester-II)
Paper-II
System Analysis and Design

UNIT TEST

Time: 45 min.]

[Maximum Marks: 30

UNIT-I

QUE. 1. SOLVE ANY THREE

- | | |
|---|---|
| (a) Explain the elements of system in detail. | 5 |
| (b) What is system? Explain any three types of systems. | 5 |
| (c) Explain system development life cycle. | 5 |
| (d) What are the different roles of the System Analyst? | 5 |

UNIT- II

QUE. 2. SOLVE ANY THREE

- | | |
|--|---|
| (a) List the different information gathering tools? Explain any one in detail. | 5 |
| (b) What is feasibility study? Give importance of it. | 5 |
| (c) Discuss the preliminary investigation phase in brief. | 5 |
| (d) Explain decision table with suitable example. | 5 |



Signature of the Teacher



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BCA-I Semester-II (2022-23)

System Analysis and Design

Paper-II

Result of Unit Test held on: 11/04/2023

Unit III and UNIT IV

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31	KARTAVYA PRAKASH BADGE	AA

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39	MAHIMA RAJENDRA BHASMOTE	AA
40	MAI RAMDAS BANSOD	21
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116	VIKAS NAMDEO SANAP	12
117	YASH NARESH SONBARSE	25
118	YASH PRAVIN KHARABE	18
119	YASHASHREE RAMESHRAO PADWE	AA
120	YOG RAMESH PATLE	20



Signature of the Teacher



**Head
Department of Computer Science**

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

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2022-2023
Bachelor of computer Application (BCA) (Semester-II)
Paper-II
System Analysis and Design

UNIT TEST

Time: 45 min.]

[Maximum Marks: 30

UNIT-III

QUE. 1. SOLVE ANY THREE

- | | |
|--|---|
| (A) What is testing? Explain why testing is required and what are the levels of testing. | 5 |
| (B) What is Conversion? Discuss any two conversion methods in brief. | 5 |
| (C) Write short note on change strategies. | 5 |
| (D) Explain system evaluation. | 5 |

UNIT-IV

QUE. 2. SOLVE ANY THREE

- | | |
|---|---|
| (A) What is software reuse? Why software reuse is required? | 5 |
| (B) Explain function point metric method used to estimate project size. | 5 |
| (C) Explain risk management in detail. | 5 |
| (D) Explain various activities carried out in project planning. | 5 |



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**SHRISHIVAJIEDUCATIONSOCIETYAMRAVATI'S
SCIENCECOLLEGE,CONGRESSNAGAR,NAGPUR.
BCA I Semester-I (2022-23)
NUMERICAL METHODS Paper-III
Result of Unit Test held on 29/03/2023 on
Unit I and Unit II**

Name of the teacher: A.A Gohad

Sr. No.	Name	Marks outof30
1	AACHAL RAJNAND ARVERKAR	14
2	AAYUSH RAJENDRA TAREKAR	21
3	ABHISHEK SANJAY THOKAL	28
4	ADITYA KAILAS MANE	10
5	AISHWARYA NAMDEV LATKAR	21
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Pakhmapure

Signature of the Teacher



**Head
Department of Computer Science**



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Academic Session 2022-2023
Bachelor of Computer Application (B.C.A) (Semester-II)
NUMERICAL METHODS Paper-III
UNIT TEST on Unit I- II

[Time: 45 min.]

[Maximum Marks: 30]

UNIT-I

QUE. 1. SOLVE ANY THREE

1. Prove that Bisection method is linearly convergent. 5
2. Find a root of the equation $4x^3 - 2x - 6 = 0$ by using Secant method. 5
3. Use the false position method to find a root of the equation $x^3 - 3x + 4 = 0$ in the range $-2 < x < -3$ 5
4. Find a root of the equation $x^3 - 2x - 5 = 0$ by using Newton Raphson method. 5

UNIT-II

QUE. 2. SOLVE ANY THREE

1. Solve the following system of equation by using Gauss Elimination method :

$$2x + y + z = 10$$

$$3x + 2y + 3z = 18$$

$$x + 4y + 9z = 16$$

5

2. Solve the equations using Gauss Jordan Method :

$$x + y + z = 9$$

$$2x - 3y + 4z = 13$$

$$3x + 4y + 5z = 40$$

5

3. Solve by Gauss-Jordan Reduction method :—

$$2x_1 + 4x_2 - 6x_3 = -8$$

$$x_1 + 3x_2 + x_3 = 10$$

$$2x_1 - 4x_2 - 2x_3 = -12$$

5

4. Discuss the Gauss elimination method with pivoting to solve the linear system of equations.

5



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SCIENCECOLLEGE, CONGRESSNAGAR, NAGPUR.
BCA I Semester-I (2022-23)
NUMERICAL METHODS Paper-III
Result of Unit Test held on 26/04/2023 on
Unit III and Unit IV**

Name of the teacher: A.A. Gohad

Sr. No.	Name	Marks out of 30
1	AACHAL RAJNAND ARVERKAR	18
2	AAYUSH RAJENDRA TAREKAR	20
3	ABHISHEK SANJAY THOKAL	5
4	ADITYA KAILAS MANE	14
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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 2023-2024
Bachelor of Computer Application (B.C.A) (Semester-II)
NUMERICAL METHODS Paper-III
UNIT TEST on Unit III- IV**

[Time: 45 MIN]

[Maximum Marks: 30]

UNIT-III

QUE. 1. SOLVE ANY THREE

1. What is Spline Interpolation ? Discuss with linear splines. 5
2. Use the Lagrange's interpolation formula to find $f(4)$ from the following data :

X	0	2	3	6
F(x)	-4	2	14	158

3. Use the method of least square fit to fit a curve of the form $y = ae^{bx}$ to the data :

X	1	2	3	4
F(x)	1.65	2.70	4.50	7.35

4. Fit a second order polynomial to the following data :

X	1.0	2.0	3.0	4.0
F(x)	6.0	11.0	18.0	27.0

UNIT-IV

QUE. 1. SOLVE ANY THREE

1. Use Simpson's 3/8 rule to evaluate $\int_0^2 (x^3 + 1)dx$, for four sample points. 5
2. Use fourth order Runge-Kutta method to estimate $y(0.4)$ when $y'(x) = x^2 + y^2$ with $y(0) = 0$. Assume $h = 0.2$. 5
3. Explain Milne-Simpson multistep method for solving ordinary differential equations. 5
4. Using Trapezoidal rule of Integration find approximately the area of cross section of a river from the following table of distance x and the depth y :
- | | | | | | | | | | |
|-----|-----|----|----|----|----|----|----|----|----|
| x | : 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 |
| y | : 0 | 4 | 7 | 9 | 12 | 15 | 14 | 8 | 3 |
- 5



Signature of the Teacher



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Congress Nagar, Nagpur

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.
BCA I Semester-II (2022-23)
Discrete Mathematics-II
Paper-IV
Result of Unit Test held on 28/02/2023 on
Unit I and UNIT II**

Name of the teacher: Dr. Varsha C. Pande

Sr. No.	Name	Marks out of 30
1	Aachal Rajnand Arverkar	13
2	Aayush Rajendra Tarekar	18
3	Abhishek Sanjay Thokal	AB
4	Aditya Kailas Mane	20
5	Aishwarya Namdev Latkar	18
6	Akanksha Ajaykumar Shende	17
7	Alkesh Arun Mahamune	25
8	Ansh Mohan Pimple	20
9	Anshu Gunwant Yekude	27
10	Anuja Vilas Zade	10
11	Anupam Rakesh Pandey	25
12	Anurag Ganesh Masram	22
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14	Archana Tejram Sharnagate	17
15	Ayush Baban Pawar	AB
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18	Darshan Sudesh Kamble	26
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26	Himanshu Yashwant Gaidhane	19
27	Ishweshwari Rajendra Thakre	24

28	Kajal Ashok Umare	23
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36	Komal Kailash Patiye	5
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38	Leena Murlidhar Yenkar	7
39	Mahima Rajendra Bhasmote	27
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119	Yashashree Rameshrao Padwe	AB
120	Yog Ramesh Patle	13



Signature of the Teacher



**Head
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Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2022-2023
Bachelor of computer Application (BCA) (Semester-I)
DISCRETE MATHEMATICS - II (Paper-IV)

UNIT TEST

Time: 45 min.]

[Maximum Marks: 30

UNIT-I

QUE. 1. SOLVE ANY THREE

1. Define power set of a set. If $A = \{3, 7, 2\}$ then,
(i) What is $|A|$
(ii) What is $|P(A)|$. 5
2. Let $A = \{a, b, c, d\}$ and let R be the relation on A that has the matrix: —
$$M_R = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 1 & 1 & 1 & 1 \\ 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 \end{bmatrix}$$

Draw the Diagraph of R . Find the Indegree and outdegree of all vertices. 5
3. Prove De Morgan's law
$$\overline{A \cup B} = \bar{A} \cap \bar{B}$$
 5
4. Let $A = \{1, 2, 3, 4, 5\}$ and
 $R = \{(1, 1), (1, 2), (1, 3), (2, 1), (2, 2), (3, 1), (2,3), (3, 3), (4, 4), (3, 2), (5, 5)\}$.
Determine, whether the relation R on set A is an equivalence relation. 5

UNIT- II

QUE. 2. SOLVE ANY THREE

1. How many different seven person committees can be formed, each containing three women from an available set of 20 women and four men from an available set of 30 Men? 5
2. Backtrack to find an explicit formula for the sequence defined by the recurrence Relation $b_n = 2 \cdot b_{n-1} + 1$ with initial condition $b_1 = 7$. $b_n = 2b_{n-1} + 1$ 5
3. If the characteristic equation $x^2 - r_1x - r_2 = 0$ of the recurrence relation $a_n = r_1 a_{n-1} + r_2 a_{n-2}$ has two distinct roots, s_1 and s_2 , then $a_n = u \cdot s_1^n + v \cdot s_2^n$, where u and v depend on the initial conditions, is the explicit formula for the sequence. 5
4. Show by mathematical induction, that for all $n \geq 1$.
$$5 + 10 + 15 + \dots + 5n = \frac{5n(n+1)}{2}$$
 5



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**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**

BCA I Semester-II (2022-23)

Discrete Mathematics-II

Paper-IV

Result of Unit Test held on 25/04/2023 on

Unit III and UNIT IV

Name of the teacher: Dr. Varsha C. Pande

Sr. No.	Name	Marks out of 30
1	Aachal Rajnand Arverkar	10
2	Aayush Rajendra Tarekar	AB
3	Abhishek Sanjay Thokal	13
4	Aditya Kailas Mane	24
5	Aishwarya Namdev Latkar	21
6	Akanksha Ajaykumar Shende	19
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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
Bachelor of computer Application (BCA) (Semester-II)
DISCRETE MATHEMATICS - II (Paper-IV)

UNIT TEST

Time: 45 min.]

[Maximum Marks: 30

UNIT-III

QUE. 1. SOLVE ANY THREE

1. Define :—
(i) Semigroup (ii) Monoid.
(iii) Sub semigroup (iv) Group homomorphism. 5
2. Let A {1, 2, 3, 4, 6, 8, 9, 18, 24} be ordered by divisibility. Draw the hasse diagram of A. 5
3. Let G be the set of all nonzero real numbers and Let
$$a * b = \frac{ab}{2}$$
 Show that (G, *) is an Abelian group. 5
4. Show that, if n is a positive integer and P_2/n , where p is a prime number, then D_n is not a Boolean algebra. 5

UNIT- IV

QUE. 2. SOLVE ANY THREE

1. Define: —
(i) Graph (ii) Subgraph
(iii) Quotient graph (iv) Complete graph. 5
2. Prove that, Let the number of edges of G be 'm' Then G has a Hamiltonian circuit, if $m \geq \frac{1}{2}(n^2 - 3n + 6)$, where 'n' is the number of vertices. 5
3. Define Euler path and Euler circuit. Prove that, if a graph G has more than two vertices of odd degree, then there can be no euler path in G. 5
4. Construct an undirected spanning tree for the following connected graph G, by removing edges insuccession. Show the graph of the resulting undirected tree. 5



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SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**

BCA I Semester-II (2022-23)

Electronic Commerce Paper-VI

Result of Unit Test held on 14/2/2023 on Unit I and Unit II

Name of the teacher: Shrutika V. Lokhande

Sr. No.	Name	Marks out of 30 in Unit I-II
1	Aachal Rajnand Arverkar	16
2	Aayush Rajendra Tarekar	24
3	Abhishek Sanjay Thokal	7
4	Aditya Kailas Mane	9
5	Aishwarya Namdev Latkar	12
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112	Vaishali Madhukar Chaudhari	AA
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116	Vikas Namdeo Sanap	15

117	Yash Naresh Sonbarse	06
118	Yash Pravin Kharabe	AA
119	Yashashree Rameshrao Padwe	AA
120	Yog Ramesh Patle	28



Signature of the Teacher



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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2022-2023
Bachelor of Computer Application (B.C.A) (Semester-II)
Electronic Commerce Paper-VI
UNIT TEST on Unit I - II**

[Time: 45 min.]

[Maximum Marks: 30]

UNIT-I

QUE. 1. SOLVE ANY THREE

- | | |
|--|---|
| 1.What is Ecommerce? Give Scope of Ecommerce | 5 |
| 2. List and explain different application of e-commerce. | 5 |
| 3.Explain in detail e-commerce trade cycle. | 5 |
| 4.Write short note on Porter's value chain model. | 5 |

UNIT-II

QUE. 1. SOLVE ANY THREE

- | | |
|---|---|
| 1.How does environment influence the Business activity? Explain. | 5 |
| 2.What is business capability? Explain the existing business strategy | 5 |
| 3.What is strategic implications of IT in e commerce? Explain. | 5 |
| 4.What is the concept of business strategy? Explain. | 5 |



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SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**

BCA I Semester-II (2022-23)

Electronic Commerce Paper-VI

Result of Unit Test held on 6/4/2023 on Unit III and Unit IV

Name of the teacher: Shrutika V. Lokhande

Sr. No.	Name	Marks out of 30 in Unit III-IV
1	Aachal Rajnand Arverkar	15
2	Aayush Rajendra Tarekar	20
3	Abhishek Sanjay Thokal	14
4	Aditya Kailas Mane	8
5	Aishwarya Namdev Latkar	AA
6	Akanksha Ajaykumar Shende	20
7	Alkesh Arun Mahamune	20
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10	Anuja Vilas Zade	20
11	Anupam Rakesh Pandey	18
12	Anurag Ganesh Masram	A
13	Anurag Rajesh Wasnik	2
14	Archana Tejram Sharnagate	AA
15	Ayush Baban Pawar	27
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17	Chetna Sunil Hedau	21
18	Darshan Sudesh Kamble	AA
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115	Vanshika Arun Khandate	20
116	Vikas Namdeo Sanap	15
117	Yash Naresh Sonbarse	06
118	Yash Pravin Kharabe	AA

119	Yashashree Ramesh Rao Padwe	AA
120	Yog Ramesh Patle	28



Signature of the Teacher



**Head
Department of Computer Science**



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

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2022-2023
Bachelor of Computer Application (B.C.A) (Semester-II)
Electronic Commerce Paper-VI
UNIT TEST on Unit III - IV**

[Time: 45 min.]

[Maximum Marks: 30]

UNIT-III

QUE. 1. SOLVE ANY THREE QUESTIONS:

- | | |
|---|---|
| 1.What is E market? Explain. | 5 |
| 2.What is electronic data interchange? Explain. | 5 |
| 3.Describe the future of e markets. | 5 |
| 4. Explain credit transaction trade cycle. | 5 |

UNIT-IV

QUE. 1. SOLVE ANY THREE QUESTIONS:

- | | |
|--|---|
| 1.Explain consumer trade transaction in e commerce. | 5 |
| 2.Write short note on e shop. | 5 |
| 3. What is e visibility? Write the reason of e visibility. | 5 |
| 4. What is the meaning of online payments? Define its need also. | 5 |



Signature of the Teacher



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**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**

Bachelor of Computer Application

B.C.A. II Semester-IV (2022-23)

LINUX OPERATING SYSTEM Paper-III

Result of Unit Test held on 27/02/2022 on Unit I & II

Name of the teacher: A. M. LONARE

Sr. no	Name of Students	Marks out of 30
1	AACHAL RAJNAND ARVERKAR	10
2	AAYUSH RAJENDRA TAREKAR	11
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Signature of teacher

Head of the Department

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

B.C.A. II Semester-IV (2022-23)

LINUX OPERATING SYSTEM Paper-I

[TIME: 48 MIN]

[MARKS: 30]

UNIT I

Que 1. Solve any three

1. Explain ls command with at least five options. 5
2. Explain logging in and logging out procedure in LINUX. 5
3. Explain the different file types in LINUX. 5
4. Explain the following commands with its syntax, purpose and example : 5
(i) rm (ii) mv (iii) cp (iv) cat (v) MKdir.

UNIT II

Que 2. Solve any three

1. Explain Vi editor with its modes. 5
2. Differentiate between back up of files and copying of files. 5
3. Explain the procedure to take back up in LINUX. 5
4. Explain the purpose of print spool directory. Write steps for sending files to printer in LINUX. 5

Signature of teacher

Head of the Department

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**

Bachelor of Computer Application

B.C.A. II Semester-IV (2022-23)

LINUX OPERATING SYSTEM Paper-III

Result of Unit Test held on 27/04/2022 on Unit I & II

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Signature of teacher

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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2023-2024**

B.C.A. II Semester-II (2023-24)

LINUX OPERATING SYSTEM Paper-I

UNIT III

Que 1. Solve any three

1. Explain how to change file permissions in LINUX with suitable example. 5
2. Which commands are used for creating and maintaining user accounts in LINUX ?
Explain with example. 5
3. Explain different types of processes in LINUX. 5
4. Explain the following LINUX commands with its options and example :
(i) kill (ii) free 5

UNIT IV

Que 2. Solve any three

1. Explain the concept of setting system clock. 5
2. Differentiate between df and du command. Give an example of each. 5
3. Explain the following commands with example : 5
(i) wall (ii) talk (iii) write (iv) mesg (v) finger.
4. Explain in brief KDE and GNOME desktop environment. 5

Signature of teacher

Head of the Department