

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S  
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.  
BCA I Semester-I (2021-22)  
Programming in c++ Paper-I  
Result of Unit Test held on 2/03/2021 on  
Unit I and UNIT II**

**Name of the teacher: A.J.Mungole**

<b>Sr. No.</b>	<b>Name</b>	<b>Marks out of 30</b>
1	ADOLKAR HARISH SUNIL	19
2	AGRAWAL SANSKRUTI SURESH	12
3	AKARTE APURVA PRITISH	18
4	ARMARKAR SNEHAL PRAMOD	7
5	ASATKAR ANUSHKA CHANDRAKANT	9
6	AWARKAR DIVYANEE SHRAVAN	26
7	BAGHEL VEDANT PRAMOD	17
8	BARAPATE PRATIK ASHOK	5
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16	BISANI PRIYANSHU MANISH	21
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24	DAWARE MANASI SHARAD	16
25	DESHMUKH KHOMESHWAR RAJESH	16
26	DESHMUKH PRATIK GOVINDRAO	11
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28	DHIRDE APURVA SANDEEP	10

29	DHOKE SUJAL SUDHIR	18
30	DHOKNE ASHLESHA DEVIDAS	23
31	DIGHORE SNEHAL GAJANAN	3
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**Signature of the teacher**



**Head of the Department**



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

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Academic Session 2021-2022  
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**

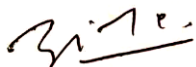
**QUE. 1. SOLVE ANY THREE**

- |   |   |
|---|---|
| (a) Explain the syntax for declaring class and creating object with example.                    | 5 |
| (b) Explain the difference between a member function declared inside and outside body of class. | 5 |
| (c) Explain the different characteristics of OOP.   | 5 |
| (d) Explain types of member functions in detail.  | 5 |

**UNIT-II**

**QUE. 1. SOLVE ANY THREE**

- |   |   |
|---|---|
| a) What is copy constructor ? Demonstrate it with suitable example.                                 | 5 |
| b) What is unary operator ? Write down unary operator overloading function with a suitable example. | 5 |
| c) Write down the rules of operator overloading. List the operators which cannot be overloaded.     | 5 |
| d) (D) What is constructor ? Explain constructor with default arguments with an example.            | 5 |



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BCA I Semester-I (2021-22)

Programming in c++ Paper-I

Result of Unit Test held on 19/04/2021 on

Unit III and UNIT IV

Name of the teacher: A.J.Mungole

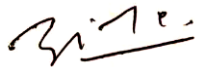
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**Academic Session 2021-2022**  
**Bachelor of Computer Application (B.C.A) (Semester-II)**  
**Programming in c++Paper-I**  
**UNIT TEST on Unit III - IV**

[ Time: 45 min.]

[Maximum Marks: 30

**UNIT-III**

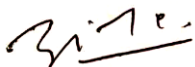
**QUE. 1. SOLVE ANY THREE**

- |   |   |
|---|---|
| (a) Explain pointer to objects. Write a program to illustrate it.                     | 5 |
| (b) What is inheritance ? Discuss multilevel Inheritance with example.                | 5 |
| (c) What is visibility mode ? What are the different inheritance visibility mode ?    | 5 |
| (d) Explain "this" pointer. Write a program to demonstrate the use of 'this' pointer. | 5 |

**UNIT-IV**

**QUE. 1. SOLVE ANY THREE**

- |   |   |
|---|---|
| (a) Define virtual functions. Explain with example.     | 5 |
| (b) Explain the rules for handling exception in 'C++'.  | 5 |
| (c) Explain pure virtual function. Give an example.     | 5 |
| (d) Write short notes on : (i) Exception Handling model |   |
| (ii) Uncaught Exception.                                | 5 |



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SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**

**BCA I Semester-II (2021-22)**

**System Analysis and Design**

**Paper-II**

**Result of Unit Test held on: 5/02/2021**

**Unit I and UNIT II**

**Name of the Teacher: Ms. Puja M. Dadhe**

Sr. No.	Name	Marks out of 30
1	Adolkar Harish Sunil	11
2	Agrawal Sanskruti Suresh	26
3	Akarte Apurva Pritish	25
4	Armarkar Snehal Pramod	AA
5	Asatkar Anushka Chandrakant	AA
6	Awarkar Divyanee Shravan	21
7	Baghel Vedant Pramod	25
8	Barapate Pratik Ashok	AA
9	Baraskar Sujal Prabhakar	AA
10	Barve Sejal Ravindra	21
11	Bharde Pavan Kishan	AA
12	Bhatkulkar Rohit Prashant	AA
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17	Bisen Gargi Omprakash	24
18	Borkar Nidhi Ganesh	AA
19	Chandekar Karan Rekhachand	24
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29	Dhoke Sujal Sudhir	26
30	Dhokne Ashlesha Devidas	27
31	Dighore Snehal Gajanan	20
32	Gaidhane Shivam Rajendra	AA
33	Ganvir Sampriiti Ashuraj	27
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49	Khobragade Vibhanshu Raju	29
50	Khodaskar Atul Laxmikant	AA
51	Kohad Siddhi Chandrashekhar	20
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59	Kulkarni Shubhada Dinesh	15
60	Lakade Lalit Dhanraj	AA
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73	Muley Purvasha Mangesh	11
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86	Pohane Shruti Rajendra	AA
87	Ramteke Shruti Shrikant	AA
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89	Sahare Vishal Jeevan	AA
90	Sayam Manish Jijaram	21
91	Shaniware Uditanshu Sanjay	AA
92	Shastrakar Karan Baban	19
93	Sheikh Adnan Latif	17
94	Sheikh Mohd Faizan Abdul Mustaque	AA
95	Shivankar Krupali Sanjay	22
96	Shukla Anamika Mahendra	18
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98	Siddiqui Sana Bano Shahid Ahemad	22
99	Singh Sandhya Tarkeshwar	22
100	Sonule Aishwarya Sheshrao	29
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107	Velhankar Nishant Milind	AA
108	Wagh Vaishnavi Ashok	AA
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Signature of the Teacher



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Shri Shivaji Education Society Amravati's  
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Academic Session 2021-2022  
Bachelor of computer Application (BCA) (Semester-II)  
Paper-IV  
System Analysis and Design

**UNIT TEST**

**Time: 45 min.]**

**[Maximum Marks: 30**

**UNIT-I**

**QUE. 1. SOLVE ANY THREE**

- |   |   |
|---|---|
| (A) What of System Analysis and Design? Explain SDLC.           | 5 |
| (B) What are the roles of system analyst?                       | 5 |
| (C) What is a Data Collection? Explain interviews               | 5 |
| (D) What is Feasibility study? Explain with a suitable example. | 5 |

**UNIT- II**

**QUE. 2. SOLVE ANY THREE**

- |   |   |
|---|---|
| (A)What do you mean by computer contracts? Explain in brief.    | 5 |
| (B) What is system security? Explain any two security measures. | 5 |
| (C) Explain the procedure for software selection.               | 5 |
| (D) What is Project Scheduling? Explain it in detail.           | 5 |



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BCA I Semester-II (2021-22)  
System Analysis and Design  
Paper-II  
Result of Unit Test held on: 16/04/2022  
Unit III and UNIT IV  
Name of the Teacher: Ms. Puja M. Dadhe**

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43	Kapre Janhvi Prashant	AA
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86	Pohane Shruti Rajendra	24
87	Ramteke Shruti Shrikant	16
88	Raut Shruti Subhash	19
89	Sahare Vishal Jeevan	AA
90	Sayam Manish Jijaram	23
91	Shaniware Uditanshu Sanjay	25
92	Shastrakar Karan Baban	24
93	Sheikh Adnan Latif	15
94	Sheikh Mohd Faizan Abdul Mustaque	14
95	Shivankar Krupali Sanjay	21
96	Shukla Anamika Mahendra	20
97	Shukla Priyanka Babbu	23
98	Siddiqui Sana Bano Shahid Ahemad	26
99	Singh Sandhya Tarkeshwar	15
100	Sonule Aishwarya Sheshrao	13
101	Tembhare Ashwin Anil	21
102	Thakre Anushri Mohan	27
103	Thakur Sneha Mahendrasingh	19
104	Tirpude Amrut Umesh	13
105	Todsam Nandini Lakhama	AA
106	Vairagade Atharv Pramod	28
107	Velhankar Nishant Milind	17
108	Wagh Vaishnavi Ashok	15
109	Wandhare Himanshu Ramrao	27
110	Wankhade Manshi Pradeep	24
111	Warhade Raj Anil	16
112	Watekar Yash Rajabhau	11
113	Yadav Rupanshu Babban	13
114	Yesansure Mohan Yashvant	23



Signature of the Teacher



Head  
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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  
Bachelor of computer Application (BCA) (Semester-II)  
Paper-IV  
System Analysis and Design

**UNIT TEST**

**Time: 45 min.]**

**[Maximum Marks: 30**

**UNIT-III**

**QUE. 1. SOLVE ANY THREE**

- (A) Write short notes on: (i) Paging (ii) Compaction 5  
(B) Explain: (i) Logical vs. Physical address space (ii) Internal vs. External fragmentation. 5  
(C) What is swapping? Explain swapin and swapout process with well labeled diagram. 5  
(D) Explain the different memory management requirements. 5

**UNIT-IV**

**QUE. 2. SOLVE ANY THREE**

- (A) Explain the concept of file directories. 5  
(B) Explain RAID mechanism in detail. 5  
(C) What is cryptography? Explain. 5  
(D) Explain any two file allocation methods. 5



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**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S  
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.  
BCA I Semester-II (2021-22)  
NUMERICAL METHODS Paper-III  
Result of Unit Test held on 2/03/2022 on  
Unit I and UNIT II**

**Name of the teacher: S. M. Sherekar**

<b>Sr. No.</b>	<b>Name Of Student</b>	<b>Marks out of 30</b>
1	ADOLKAR HARISH SUNIL	15
2	AGRAWAL SANSKRUTI SURESH	22
3	AKARTE APURVA PRITISH	19
4	ARMARKAR SNEHAL PRAMOD	7
5	ASATKAR ANUSHKA CHANDRAKANT	30
6	AWARKAR DIVYANEE SHRAVAN	25
7	BAGHEL VEDANT PRAMOD	22
8	BARAPATE PRATIK ASHOK	16
9	BARASKAR SUJAL PRABHAKAR	23
10	BARVE SEJAL RAVINDRA	AB
11	BHARDE PAVAN KISHAN	4
12	BHATKULKAR ROHIT PRASHANT	25
13	BHIWGADE SAMRUDDHI VINOD	24
14	BHOIKAR MAHI MORESHWAR	6
15	BHOSALE KOMAL MADHUJI	16
16	BISANI PRIYANSHU MANISH	25
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18	BORKAR NIDHI GANESH	12
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23	DANDI SIDDHANT ASHOKRAO	22
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25	DESHMUKH KHOMESHWAR RAJESH	7

26	DESHMUKH PRATIK GOVINDRAO	30
27	DHENGRE MANSHU JAYKUMAR	25
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40	HARODE SALONI RAVI	5
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Bachelor of Computer Application (B.C.A) (Semester-II)  
NUMERICAL METHODS Paper-III**

**UNIT TEST on Unit I - II**

[ Time: 1 hr .]

[Maximum Marks: 30 ]

**UNIT-I**

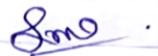
**QUE. 1. SOLVE ANY THREE**

1. Discuss the following with example :
  - (i) Polynomial equation
  - (ii) Transcendental equation. 5
2. Find the root of equation  $f(x) = x^2 - x - 1 = 0$  by using Bisection Method. 5
3. Use Newton-Raphson Method to find the roots of equation  $f(x) = x^3 - 2x - 5 = 0$ . 5
4. Distinguish between the Secant and Regula Falsi method. 5

**UNIT-II**

**QUE. 2. SOLVE ANY THREE**

1. Explain Matrix inversion method to find solution of n linear equations in n unknowns, and use this method to find solution of following equations :—  
 $3x + 4y = 50$   
 $5x + 3y = 65$ . 5
2. What is Matrix Inversion method ? Explain with example. 5
3. Solve the following system of equations by using Gauss Elimination with Partial Pivoting  
 $x_1 + x_2 - 2x_3 = 3$   
 $4x_1 - 2x_2 + x_3 = 5$   
 $3x_1 - x_2 + 3x_3 = 8$  5
4. Solve the following system using Gauss-Jordan method :  
 $2x_1 + x_2 + x_3 = 7$   
 $4x_1 + 2x_2 + 3x_3 = 4$   
 $x_1 - x_2 + x_3 = 0$  5



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SCIENCECOLLEGE, CONGRESSNAGAR, NAGPUR.  
BCAISemester-II(2021-22)  
NUMERICAL METHODS Paper-III  
ResultofUnitTestheldon9/04/2021 on  
UnitIII and UNIT IV**

**Name of the teacher: S.M. Sherekar**

<b>Sr. No.</b>	<b>Name</b>	<b>Marks outof30</b>
1	ADOLKAR HARISH SUNIL	14
2	AGRAWAL SANSKRUTI SURESH	22
3	AKARTE APURVA PRITISH	28
4	ARMARKAR SNEHAL PRAMOD	28
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Academic Session 2021-2022  
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 least square regression ? Derive normal equations for evaluating the parameters a and b to fit data to straight line  $y = a + bx$ . 5
2. Estimate  $f(1.35)$  using Lagrange's interpolation formula : 5  

<b>x</b>	:	1.2	1.3	1.4	1.5
<b>f(x)</b>	:	1.063	1.091	1.119	1.45
3. Fit a straight line  $y = a_0 + a_1x$  to the data : 5  

<b>x</b>	:	0	1	2	3	4
<b>y</b>	:	1.0	2.9	4.8	6.7	8.6
4. What is multiple linear regression ? Explain. 5

**UNIT-IV**

**QUE. 2. SOLVE ANY THREE**

1. Find the value of  $\int_1^2 \frac{dx}{x}$  by using Simpson 3/8 rule using  $h = 0.25$ . 5
2. Evaluate  $\int_0^1 \cos x \, dx$  by using Trapezoidal; using value of  $h = 0.25$ . 5
3. Solve  $\int_0^6 \frac{dx}{1+x^2}$  using Simpson 1/3 rule. Divide the interval into 6 subintervals. 5
4. Given the initial value problem : 5  
 $\frac{dy}{dx} = y - x$  with  $y(0) = 2$   
find  $y(0.1)$  and  $y(0.2)$  by using Runge-Kutta second order method.



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**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S**  
**SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**  
**BCA I Semester-II (2021-22)**  
**Discrete Mathematics-II**  
**Paper-IV**  
**Result of Unit Test held on 08/03/2022 on**  
**Unit I and UNIT II**

**Name of the teacher: Dr. Varsha C. Pande**

<b>Sr. No.</b>	<b>Name</b>	<b>Marks out of 30</b>
1	Adolkar Harish Sunil	27
2	Agrawal Sanskruti Suresh	11
3	Akarte Apurva Pritish	18
4	Armarkar Snehal Pramod	25
5	Asatkar Anushka Chandrakant	13
6	Awarkar Divyanee Shravan	16
7	Baghel Vedant Pramod	AB
8	Barapate Pratik Ashok	AB
9	Baraskar Sujal Prabhakar	6
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11	Bharde Pavan Kishan	7
12	Bhatkulkar Rohit Prashant	15
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24	Daware Manasi Sharad	AB
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26	Deshmukh Pratik Govindrao	19
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80	Pande Abhinav Abhay	18
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82	Parate Vedant Narendra	13
83	Patil Anubhav Anil	19
84	Patil Shubham Arun	10
85	Patil Tejas Fakira	AB
86	Pohane Shruti Rajendra	27
87	Ramteke Shruti Shrikant	20
88	Raut Shruti Subhash	15
89	Sahare Vishal Jeevan	17
90	Sayam Manish Jijaram	10
91	Shaniware Uditanshu Sanjay	22
92	Shastrakar Karan Baban	28
93	Sheikh Adnan Latif	28
94	Sheikh Mohd Faizan Abdul Mustaque	23
95	Shivankar Krupali Sanjay	20



96	Shukla Anamika Mahendra	27
97	Shukla Priyanka Babbu	AB
98	Siddiqui Sana Bano Shahid Ahemad	14
99	Singh Sandhya Tarkeshwar	16
100	Sonule Aishwarya Sheshrao	20
101	Tembhare Ashwin Anil	10
102	Thakre Anushri Mohan	23
103	Thakur Sneha Mahendrasingh	12
104	Tirpude Amrut Umesh	19
105	Todsam Nandini Lakhama	24
106	Vairagade Atharv Pramod	14
107	Velhankar Nishant Milind	19
108	Wagh Vaishnavi Ashok	17
109	Wandhare Himanshu Ramrao	14
110	Wankhade Manshi Pradeep	AB
111	Warhade Raj Anil	15
112	Watekar Yash Rajabhau	23
113	Yadav Rupanshu Babban	28
114	Yesansure Mohan Yashvant	16



**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  
Bachelor of computer Application (BCA) (Semester-I)  
Paper-IV  
DISCRETE MATHEMATICS - II

**UNIT TEST**

**Time: 45 min.]**

**[Maximum Marks: 30**

**UNIT-I**

**QUE. 1. SOLVE ANY THREE**

1 Let A and B are two sets. Prove that:

$$\overline{A \cup B} = \overline{A} \cap \overline{B} \text{ and } \overline{A \cap B} = \overline{A} \cup \overline{B} \quad 5$$

2 Prove that: Let R be an equivalence relation on A and let P be the collection of all distinct relative sets R(a) for a in A. Then P is a partition of A and R is an equivalence relation determined by P. 5

3 If  $A = \{1, 2, 3, 4\}$   
 $R = \{(1, 1), (1, 2), (2, 3), (2, 4), (3, 4), (4, 1), (4, 2)\}$ .  
Find  $R^2$  and  $R^\infty$ . 5

4 Let  $A = \{a, b, c, d\}$  and Let R be the relation on A that has the matrix

$$M_R = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 1 & 1 & 1 & 0 \\ 0 & 1 & 0 & 1 \end{bmatrix}$$

Construct the diagram of R and list indegrees and out-degree of all vertices. 5

**UNIT- II**

**QUE. 2. SOLVE ANY THREE**

1 Let  $f : A \rightarrow B$  and  $g : B \rightarrow C$  be the invertible function then prove that

$$(g \circ f)^{-1} = f^{-1} \circ g^{-1} \quad 5$$

2 Prove by Mathematical Induction,

$$a + ar + ar^2 + \dots + ar^{n-1} = \frac{a(1-r^n)}{1-r} \quad \square \text{ for } r \neq 1. \quad 5$$

3 Let  $f : A \rightarrow B$  and  $g : B \rightarrow A$  be functions such that  $g \circ f = I_A$  and  $f \circ g = I_B$ , Then prove that f is one-to-one correspondence from A to B and g is one-to-one from B to A and each is inverse of other. 5

4 Let  $A = \{1, 2, 3, 4, 5, 6, 7, 8\}$ , determine whether the permutation is even or odd,  
(i)  $(6, 4, 2, 1, 5)$   
(ii)  $(4, 8) \circ (3, 5, 2, 1) \circ (2, 4, 7, 1)$  5



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

**BCA I Semester-II (2021-22)**

**Discrete Mathematics-II**

**Paper-IV**

**Result of Unit Test held on 27/04/2022 on**

**Unit III and UNIT IV**

**Name of the teacher: Dr. Varsha C. Pande**

<b>Sr. No.</b>	<b>Name</b>	<b>Marks out of 30</b>
1	Adolkar Harish Sunil	AB
2	Agrawal Sanskruti Suresh	AB
3	Akarte Apurva Pritish	15
4	Armarkar Snehal Pramod	27
5	Asatkar Anushka Chandrakant	15
6	Awarkar Divyanee Shravan	13
7	Baghel Vedant Pramod	27
8	Barapate Pratik Ashok	11
9	Baraskar Sujal Prabhakar	16
10	Barve Sejal Ravindra	13
11	Bharde Pavan Kishan	26
12	Bhatkulkar Rohit Prashant	22
13	Bhiwgade Samruddhi Vinod	25
14	Bhoikar Mahi Moreshwar	27
15	Bhosale Komal Madhuji	AB
16	Bisani Priyanshu Manish	AB
17	Bisen Gargi Omprakash	6
18	Borkar Nidhi Ganesh	19
19	Chandekar Karan Rekhachand	22
20	Chatur Vaibhavi Devidas	26
21	Choudhary Samanta Shailesh	10
22	Dahikar Toshik Santosh	11
23	Dandi Siddhant Ashokrao	7
24	Daware Manasi Sharad	AB
25	Deshmukh Khomeshwar Rajesh	AB
26	Deshmukh Pratik Govindrao	AB
27	Dhengre Manshu Jaykumar	23

28	Dhirde Apurva Sandeep	13
29	Dhoke Sujal Sudhir	22
30	Dhokne Ashlesha Devidas	23
31	Dighore Snehal Gajanan	19
32	Gaidhane Shivam Rajendra	26
33	Ganvir Sampri Ashuraj	21
34	Gautam Swejal Sanjay	15
35	Gholse Yashasvi Kishor	28
36	Ghosh Surabhi Subrota	14
37	Giripunje Parag Dhanraj	AB
38	Gomkale Prutha Pravin	26
39	Gupta Prathemesh Vinod	16
40	Harode Saloni Ravi	26
41	Jamgade Anisha Ashwin	26
42	Kajale Mahesh Laxmanrao	19
43	Kapre Janhvi Prashant	20
44	Khan Saania Saeed Ahmed	13
45	Khannade Samiksha Satish	27
46	Kharbade Samiksha Satish	12
47	Khasbade Arya Pramod	28
48	Khinchi Harsh Radheshyam	17
49	Khobragade Vibhanshu Raju	27
50	Khodaskar Atul Laxmikant	15
51	Kohad Siddhi Chandrashekhar	18
52	Kohale Yash Anil	28
53	Kolhe Ishita Nitin	22
54	Kolhe Piyush Moreshwar	19
55	Kottarwar Diya Prakash	19
56	Kshirsagar Sahil Sunil	19
57	Kukde Ayush Rajesh	18
58	Kukutkar Gauri Rajendra	11
59	Kulkarni Shubhada Dinesh	12
60	Lakade Lalit Dhanraj	11
61	Latare Tushar Kishor	22

62	Lokhande Abhiyush Bandu	15
63	Maher Gunjan Bijoosingh	15
64	Makade Divya Arvind	14
65	Mangate Vishvas Bhargav	18
66	Mankar Shivam Ravindra	14
67	Maske Jatin Prashant	AB
68	Mishra Sakshi Sanjay	13
69	Mohadikar Mohit Motilal	11
70	Mohod Vedika Vasant	13
71	Moon Krunali Rajesh	15
72	Motharkar Srushti Dashrath	19
73	Muley Purvasha Mangesh	11
74	Nagdeve Anugra Mukunda	26
75	Nagpure Juhi Sanjay	26
76	Nipane Sanika Vilas	24
77	Padole Ayushi Yogesh	18
78	Pal Eshika Ganesh	6
79	Paliwal Aditi Subhash	10
80	Pande Abhinav Abhay	AB
81	Parate Riya Laxman	8
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110	Wankhade Manshi Pradeep	17
111	Warhade Raj Anil	25
112	Watekar Yash Rajabhau	16
113	Yadav Rupanshu Babban	AB
114	Yesansure Mohan Yashvant	AB
115		



**Signature of the Teacher**



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Academic Session 2021-2022  
Bachelor of computer Application (BCA) (Semester-II)  
Paper-IV  
DISCRETE MATHEMATICS - II

**UNIT TEST**

**Time: 45 min.]**

**[Maximum Marks: 30**

**UNIT-III**

**QUE. 1. SOLVE ANY THREE**

1. Let  $f : S \rightarrow T$  be a homomorphism of the semigroup  $(S, *)$  onto the semigroup  $(T, *)$ . Let  $R$  be the relation on  $S$  defined by  $aRb$  if and only iff  $f(a) = f(b)$  for  $a$  and  $b$  in  $S$ . Then prove that  $R$  is a congruence relation. 5
2. Let  $A = \{1, 2, 3, 4, 12\}$ . Consider a partial order divisibility on  $A$ . Draw the Hasse diagram of the poset  $(A, >)$ . 5
3. Let  $G$  be the set of all non-zero real numbers and let  
$$a * b = \frac{ab}{2} \quad \forall a, b \in G$$
 Show that  $(G, *)$  is an abelian group. 5
4. Let  $L$  be a bounded distributive lattice. Prove that if complement of  $a \in L$  exists, then it is unique. 5

**UNIT- IV**

**QUE. 2. SOLVE ANY THREE**

1. 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
2. Define:  
(i) Tree (ii) Height of tree (iii) Complete binary tree. 5
3. Let number of edges of graph  $G$  be  $m$ , then prove that  $G$  has a Hamiltonian circuit if  
$$m \geq \frac{1}{2}(n^2 - 3n + 6)$$
 where  $n$  is the number of vertices. 5
4. Prove that a tree with  $n$  vertices has  $n - 1$  edges. 5



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SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**

**BCA I Semester-II (2021-22)**

**Electronic Commerce Paper-VI**

**Result of Unit Test held on 8/3/2022 on Unit I and Unit II**

**Name of the teacher: Shrutika V. Lokhande**

<b>Sr. No.</b>	<b>Name</b>	<b>Marks out of 30 in Unit I-II</b>
1	Aaditi Subhash Paliwal	18
2	Aishwarya Sheshrao Sonule	22
3	Anamika Mahendra Shukla	17
4	Anisha Ashwin Jamgade	19
5	Anushka Chandrakant Asatkar	12
6	Anushri Mohan Thakre	AA
7	Apurva Pritish Akarte	21
8	Apurva Viveksingh Khannade	AA
9	Arya Promod Khasbage	16
10	Ashlesha Devidas Dhokne	28
11	Ayushi Yogesh Padole	16
12	Divya Arvind Makade	11
13	Divyaneer Shraavan Awarkar	21
14	Diya Prakash Kottarwar	16
15	Eshika Ganesh Pal	27
16	Gargi Omprakash Bisen	19
17	Gauri Rajendra Kukutkar	21
18	Gunjan Bijoosingh Maher	AA
19	Ishita Nitin Kolhe	AA
20	Juhi Sanjay Nagpure	15
21	Komal Madhu Bhosale	21
22	Krunali Rajesh Moon	18
23	Mahi Moreshwar Bhoikar	25
24	Manasi Sharad Daware	12
25	Manshu Jaykumar Dhengre	29
26	Mansi Pradeep Wankhade	19
27	Nandini Lakhama Todsam	29
28	Nidhi Ganesh Borkar	7
29	Priyanka Babbu Shukla	17
30	Prutha Pravin Gomkale	AA



31	Purvasha Mangesh Muley	AA
32	Riya Laxman Parate	5
33	Saania Saeed Khan	12
34	Sakshi Sanjay Mishra	29
35	Saloni Ravi Harode	5
36	Samanta Shailesh Choudhary	AA
37	Samiksha Satish Kharbade	26
38	Sampriti Asuraj Ganvir	11
39	Samruddhi Vinod Bhiwgade	8
40	Sana Bano Shahid Ahemad Siddiqui	20
41	Sandhya Tarkeshwar Singh	6
42	Sanika Vilas Nipane	29
43	Sanskriti Suresh Agrawal	20
44	Sejal Ravindra Barve	9
45	Shruti Rajendra Pohane	27
46	Shruti Shrikant Ramteke	20
47	Shruti Subhash Raut	7
48	Siddhi Chandrashekhar Kohad	28
49	Sneha Mahendrasingh Thakur	AA
50	Snehal Gajanan Dighore	29
51	Snehal Pramod Armarkar	18
52	Srushti Dashrath Motharkar	5
53	Sujal Sudhir Dhoke	23
54	Surabhi Subrota Ghosh	29
55	Swejal Sanjay Gautam	20
56	Vaibhavi Devidas Chatur	20
57	Vaishnavi Ashokrao Wagh	25
58	Vedika Vasant Mohod	13
59	Yashasvi Kishor Gholse	19
60	Abhinav Abhay Pande	15
61	Abhiyush Bandu Lokhande	28
62	Adnan Latif Sheikh	11
63	Amrut Umesh Tirpude	9
64	Anubhav Anil Patil	30
65	Anugra Mukunda Nagdeve	16
66	Ashwin Anil Tembhare	AA
67	Atharv Pramod Vairagade	13
68	Atul Laxmikant Khodaskar	11
69	Ayush Rajesh Kukade	23

70	Harish Sunil Adolkar	22
71	Harsh Radheshyam Khinchi	28
72	Himanshu Ramrao Wandhare	20
73	Janhvi Prashant Kapre	16
74	Jatin Prashant Maske	16
75	Karan Babanrao Shastrakar	27
76	Karan Rekhchand Chandekar	14
77	Khomeshwar Rajesh Deshmukh	20
78	Lalit Dhanraj Lakade	9
79	Mahesh Laxmanrao Kajale	11
80	Manish Jijaram Sayam	29
81	Mohan Yashvant Yesansure	16
82	Mohd Faizan Abdul Mushtaque Sheikh	19
83	Mohit Motilal Mohadikar	25
84	Nishant Milind Velhankar	7
85	Parag Dhanraj Giripunje	25
86	Pavan Kisan Bharde	AA
87	Piyush Moreshwar Kolhe	25
88	Prathamesh Vinod Gupta	17
89	Pratik Ashok Barapatre	14
90	Pratik Govinrao Deshmukh	15
91	Priyanshu Manish Bisani	22
92	Raj Anil Warhade	17
93	Rupanshu Babban Yadav	18
94	Sahil Sunil Kshirsagar	30
95	Shivam Rajendra Gaidhane	25
96	Shivam Ravindra Mankar	15
97	Shubham Arun Patil	5
98	Siddhant Ashokrao Dandi	28
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102	Tushar Kishor Latare	17
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105	Vedant Pramod Baghel	25
106	Vibhanshu Raju Khobragade	22
107	Vishal Jivan Sahare	7
108	Vishvas Bhargav Mangate	22

109	Yash Anil Kohale	9
110	Yash Rajabhau Watekar	16



**Signature of the Teacher**



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**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Academic Session 2021-2022  
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. Write notes on : i) Trade cycle ii) E markets.      | 5 |
| 2. Differentiate between value chain and supply chain. | 5 |
| 3. Explain applications of E commerce.                 | 5 |
| 4. Explain the scope of electronic commerce.           | 5 |

**UNIT-II**

**QUE. 1. SOLVE ANY THREE**

- |  |   |
|--|---|
| 1. Explain porters model in detail.          | 5 |
| 2. What are the strategic implication of IT. | 5 |
| 3. Discuss business capability.              | 5 |
| 4. Explain E commerce evaluation.            | 5 |



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

**BCA I Semester-II (2021-22)**

**Electronic Commerce Paper-VI**

**Result of Unit Test held on 28/4/2022 on Unit III and Unit IV**

**Name of the teacher: Shrutika V. Lokhande**

<b>Sr. No.</b>	<b>Name</b>	<b>Marks out of 30 in Unit III-IV</b>
1	Aaditi Subhash Paliwal	20
2	Aishwarya Sheshrao Sonule	21
3	Anamika Mahendra Shukla	18
4	Anisha Ashwin Jamgade	20
5	Anushka Chandrakant Asatkar	15
6	Anushri Mohan Thakre	5
7	Apurva Pritish Akarte	AA
8	Apurva Viveksingh Khannade	AA
9	Arya Promod Khasbage	AA
10	Ashlesha Devidas Dhokne	28
11	Ayushi Yogesh Padole	16
12	Divya Arvind Makade	AA
13	Divyaneer Shraavan Awarkar	21
14	Diya Prakash Kottarwar	16
15	Eshika Ganesh Pal	27
16	Gargi Omprakash Bisen	19
17	Gauri Rajendra Kukutkar	25
18	Gunjan Bijoosingh Maher	AA
19	Ishita Nitin Kolhe	AA
20	Juhi Sanjay Nagpure	15
21	Komal Madhu Bhosale	21
22	Krunali Rajesh Moon	18
23	Mahi Moreshwar Bhoikar	25
24	Manasi Sharad Daware	12
25	Manshu Jaykumar Dhengre	29
26	Mansi Pradeep Wankhade	19
27	Nandini Lakhama Todsam	29
28	Nidhi Ganesh Borkar	17
29	Priyanka Babbu Shukla	13
30	Prutha Pravin Gomkale	AA

31	Purvasha Mangesh Muley	AA
32	Riya Laxman Parate	5
33	Saania Saeed Khan	12
34	Sakshi Sanjay Mishra	29
35	Saloni Ravi Harode	5
36	Samanta Shailesh Choudhary	AA
37	Samiksha Satish Kharbade	26
38	Sampriti Asuraj Ganvir	11
39	Samruddhi Vinod Bhiwgade	8
40	Sana Bano Shahid Ahemad Siddiqui	20
41	Sandhya Tarkeshwar Singh	6
42	Sanika Vilas Nipane	29
43	Sanskriti Suresh Agrawal	24
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48	Siddhi Chandrashekhar Kohad	28
49	Sneha Mahendrasingh Thakur	AA
50	Snehal Gajanan Dighore	29
51	Snehal Pramod Armarkar	18
52	Srushti Dashrath Motharkar	5
53	Sujal Sudhir Dhoke	23
54	Surabhi Subrota Ghosh	29
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56	Vaibhavi Devidas Chatur	20
57	Vaishnavi Ashokrao Wagh	25
58	Vedika Vasant Mohod	13
59	Yashasvi Kishor Gholse	19
60	Abhinav Abhay Pande	15
61	Abhiyush Bandu Lokhande	28
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94	Sahil Sunil Kshirsagar	30
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96	Shivam Ravindra Mankar	15
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109	Yash Anil Kohale	AA
110	Yash Rajabhau Watekar	AA



**Signature of the Teacher**



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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**

- |  |   |
|--|---|
| 1.Explain Inter-organizational transaction.          | 5 |
| 2.What is electronic market ? Give its advantages.   | 5 |
| 3.What are the pens and things in electronic market. | 5 |
| 4.Define i)EDI ii) Business to Business Ecommerce    | 5 |

**UNIT-IV**

**QUE. 1. SOLVE ANY THREE**

- |   |   |
|---|---|
| 1 Define E shop and Internet e commerce                         | 5 |
| 2. Explain E commerce technology.                               | 5 |
| 3. Give the advantages and disadvantages of consumer e commerce | 5 |
| 4.What is internet e commerce security?                         | 5 |



**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.**

**Bachelor of Computer Application**

**B.C.A. I Semester-I (2021-22)**

**LINUX OPERATING SYSTEM Paper-V**

**Result of Unit Test held on 12/09/2021 on Unit I & II**

**Name of the teacher: Manisha Chawale**

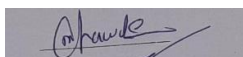
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**Signature of the Teacher**



**Head**

**Department of Computer Science**



Professor & Head  
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**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Academic Session 2021-2022**

**B.C.A. I Semester-I (2021-22)**

**LINUX OPERATING SYSTEM-V**

**UNIT I & UNIT II**

[Time: 48 min.]

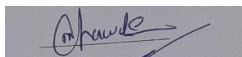
[Maximum Marks: 30]

**Que 1] Solve any three questions.**

1. Explain logging in and logging out procedure in LINUX.. 5
2. Explain file system in Linux.
3. Write short note on spawning process 5
4. Give syntax, purpose and example of the following commands: 5  
(i) cat (ii) cp (iii) rm (iv) ls (v) mkdir 5

**Que 2] Solve any three questions**

1. Write steps for sending files to printers in LINUX. 5
2. Explain command and insert mode in Vi editor. 5
3. Explain how files are compressed and uncompressed using gunzip and gzip command. 5
4. Write steps to FORMAT floppy disk in Linux Operating System. 5



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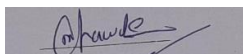
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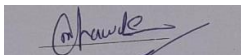
[Maximum Marks: 30]

**Que 1. Solve any three**

1. Explain the following commands : 5  
(i) Chmod (ii) Chown.
2. Why should password be changed at regular intervals ? Write short notes on : (i)  
Granting access to files.
3. Write steps to create a group account. 5
4. Explain top utility in detail. 5

**Que 2. Solve any three**

1. Explain df and du command with syntax and example. 5
2. Write steps to locate unused files in Linux. 5
3. Explain purpose and syntax of write and wall command. 5
4. Explain KDE Desktop environment in brief. 5



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