

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S  
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.  
BCA I Semester-II (2020-21)  
Programming in c++ Paper-I  
Result of Unit Test held on 17/02/2020 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	Aakansha Manik Malewar	11
2	Aanchal Ashwani Yadav	21
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*B. T. e.*

**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 2020-2021  
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 access specifiers in C++.  | 5 |
| b) Write a program in C++ to add two integers X and Y using a class.  | 5 |
| c) Explain any three object oriented features in C++.   | 5 |
| d) Create a class Bank_Account having the data members : Acc_No.,<br>Name, Acc_type, Amount Member functions : getdata( ) display( ). | 5 |

5

**UNIT-II**

**QUE. 1. SOLVE ANY THREE**

- |  |   |
|--|---|
| a) Explain parameterized constructions with an example.                  | 5 |
| b) Write a program in C++ to count the no of objects created in a class. | 5 |
| c) Write a program in C++ to overload the increment operator ++.         | 5 |
| d) Explain constructor overloading.                                      | 5 |



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SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.

BCA I Semester-II (2020-21)

Programming in c++ Paper-I

Result of Unit Test held on 02/06/2020 on

Unit III and UNIT IV

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*[Handwritten signature]*

**Signature of the teacher**

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**Academic Session 2020-2021**  
**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) Write notes on : (i) Array of Objects (ii) New and Delete Operators
- (b) What is Inheritance ? Explain any two inheritances with example.
- (c) What is Abstract Class ? Explain.
- (d) How will you derive a class from a base class ? Explain with an example.

**UNIT-IV**

**QUE. 1. SOLVE ANY THREE**

- (a) What are the rules for virtual functions ?
- (b) Explain when do we make a virtual function "pure" ? What are the implications of making a function a pure virtual function ?
- (c) Explain Exception handling model.
- (d) What is a fault ? Explain fault tolerant design techniques



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SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**

**BCA I Semester-II (2020-21)**

**System Analysis and Design**

**Paper-II**

**Result of Unit Test held on: 27/02/2021**

**Unit I and UNIT II**

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

<b>Sr. No.</b>	<b>Name</b>	<b>Marks out of 30</b>
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Shri Shivaji Education Society Amravati's  
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Academic Session 2020-2021  
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)What is System Analysis and Design? Explain the functions of Information System. | 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 |

**UNIT- II**

**QUE. 2. SOLVE ANY THREE**

- |  |   |
|--|---|
| (A) Explain: (i) SOP. (ii) Structured English.   | 5 |
| (B) What is Code? Explain its type.              | 5 |
| (C) What is Human factor consideration? Explain. | 5 |
| (D) Explain principle of form design.            | 5 |



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SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**

**BCA I Semester-II (2020-21)**

**System Analysis and Design**

**Paper-II**

**Result of Unit Test held on: 9/04/2021**

**Unit III and UNIT IV**

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

<b>Sr. No.</b>	<b>Name</b>	<b>Marks out of 30</b>
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**Signature of the Teacher**



**Head  
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Professor & Head  
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Congress Nagar, Nagpur

Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Academic Session 2020-2021  
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 Paging? Explain.                              | 5 |
| (B) What is logical vs. Physical Address Space.           | 5 |
| (C) Explain the concept of dynamic linking.               | 5 |
| (D) Explain the different memory management requirements. | 5 |

**UNIT-IV**

**QUE. 2. SOLVE ANY THREE**

- |   |   |
|---|---|
| (A) Explain the I/O Hardware in I/O management. | 5 |
| (B) Explain various file accessing methods.     | 5 |
| (C) What is cryptography? Explain.              | 5 |
| (D) Explain RAID level 3.                       | 5 |



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**SHRISHIVAJIEDUCATIONSOCIETYAMRAVATI'S  
SCIENCECOLLEGE, CONGRESSNAGAR, NAGPUR.  
BCAISemester-II(2020-21)  
Numerical Methods Paper-III  
ResultofUnitTestheldon 15/09/2020 on  
UnitI and UNIT II**

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

<b>Sr. No.</b>	<b>Name</b>	<b>Marks out of30</b>
1	AakanshaManikMalewar	22
2	AanchalAshwaniYadav	5
3	AaysuhRupalGour	22
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Science College, Congress Nagar, Nagpur  
Academic Session 2020-2021  
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. Discuss the following with example :

(i) Polynomial equation

(ii) Transcendental equation.

5

1. Find the root of equation  $f(x) = x^2 - x - 1 = 0$  by using Bisection Method.

5

2. Use Newton-Raphson Method to find the roots of equation  $f(x) = x^3 - 2x - 5 = 0$ .

5

3. 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-I(2020-21)**

**Numerical Methods Paper-III**

**ResultofUnitTestheldon2/06/2020 on**

**UnitIII and UNIT IV**

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

<b>Sr. No.</b>	<b>Name</b>	<b>Marks outof30</b>
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**Science College, Congress Nagar, Nagpur**  
**Academic Session 2020-2021**  
**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 :  

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

<b>x</b>	:	0	1	2	3	4	
<b>y</b>	:	1.0	2.9	4.8	6.7	8.6	5
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 :  
 $\frac{dy}{dx} = y - x$  with  $y(0) = 2$   
find  $y(0.1)$  and  $y(0.2)$  by using Runge-Kutta second order method. 5



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**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S**  
**SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**  
**BCA I Semester-II (2020-21)**  
**Discrete Mathematics-II (Paper-IV)**  
**Result of Unit Test held on 15/04/2021 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	Aakansha Manik Malewar	14
2	Aanchal Ashwani Yadav	6
3	Aaysuh Rupal Gour	20
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**Science College, Congress Nagar, Nagpur**  
 Academic Session 2020-2021  
 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. A computer company wants to hire 25 programmers to handle systems programming jobs and 40 programmers for applications programming. Of those hired, ten will be expected to perform jobs of both types. How many programmers must be hired? 5
- 2 Show that for any two finite and non-empty sets A and B;  
 $A - (A \cap B) = A - B$ . 5
- 3 Let R be an equivalence relation on set A, and let  $a \in A$  and  $b \in A$ . Then prove that  $aRb$  if and only if  $R(a) = R(b)$ . 5
- 4 Let  $A = \{1, 2, 3\}$  and let R and S be relations on A. Suppose that the matrices of R and S are

$$M_R = \begin{bmatrix} 1 & 0 & 1 \\ 0 & 1 & 1 \\ 0 & 0 & 0 \end{bmatrix} \text{ and } M_S = \begin{bmatrix} 0 & 1 & 1 \\ 1 & 1 & 0 \\ 0 & 1 & 0 \end{bmatrix} \text{ Find (i) } M_{\bar{R}} \quad \text{(ii) } M_{R \cap S} \quad \text{(iii) } M_{R \cup S} \quad 5$$

**UNIT- II**

**QUE. 2. SOLVE ANY THREE**

1. Let  $A_1, A_2, A_3, \dots, A_n$  be any n sets. Show by mathematical induction that

$$\left( \bigcup_{i=1}^n A_i \right) = \overline{\bigcap_{i=1}^n \overline{A_i}} \quad 5$$

- 2 Show that  ${}_{n+1}C_r = {}_nC_{r-1} + {}_nC_r$  5
- 3 Use the technique of backtracking to find an explicit formula for the sequence defined by the recurrence relation  $b_n = 5b_{n-1} + 3$  with initial condition  $b_1 = 2$  5
- 4 State and prove that pigeonhole principle. 5



**Signature of the Teacher**



**Head  
 Department of Computer Science**



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

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

**BCA I Semester-II (2020-21)**

**Discrete Mathematics-II**

**Paper-IV**

**Result of Unit Test held on 07/06/2021 on**

**Unit III and UNIT IV**

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

Sr. No.	Name	Marks out of 30
1	Aakansha Manik Malewar	24
2	Aanchal Ashwani Yadav	19
3	Aaysuh Rupal Gour	11
4	Abhay Kapurchand Baghele	28
5	Aditya Sandeep Nageshwar	24
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14	Anshul Arvind Gedam	20
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35	Harshada Vilas Bobade	26

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38	Jatin Rajiv Dhurve	AB
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40	Jayshree Jitlal Wasnik	28
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51	Mohit Haribhau Fulkar	19
52	Mohnish Surpat Khairwar	13
53	Navin Ravi Kaithwas	19
54	Nikita Umesh Shendre	28
55	Nikita Wamanrao Ambulkar	23
56	Nisarga Bhushan Gaikwad	25
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64	Prajwal Sunil Dharnedhar	13
65	Pranav Sanjay Manapure	27
66	Pranay Prabhakar Punvatkar	AB
67	Pranay Sanjay Sadanpawar	13
68	Pratham Bharat Duryodhan	AB
69	Pratham Prashant Paunekar	AB
70	Pratik Vinodrao Thosar	14
71	Preyas Rajendra Zodape	19
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74	Rajjat Sanjay Balbuddhe	14
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76	Ritik Gajanan Sapate	AB
77	Riya Sanjay Chauhan	AB
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89	Sejal Vijay Patil	28
90	Shantanu Pruthviraj Khaparde	20
91	Shashank Naresh Marwade	18
92	Shivam Shankar Pichake	AB
93	Shivansh Ganesh Paithane	15
94	Shreyash Sunil Deulkar	24
95	Shruti Abhay Singh	12
96	Shruti Jayant Shivankar	29
97	Shruti Manoj Verma	AB
98	Siddhant Jayprakash Wankhade	AB
99	Smarnika Virendra Borkar	14
100	Snehal Ratan Suryawanshi	24
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110	Vaibhavi Vijay Kalode	14
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113	Yash Vijay Khedikar	AB
114	Yash Dipak Jadhao	AB
115	Yash Manohar Dahiwale	12
116	Yash Vinod Khanke	AB
117	Yashshree Vidyadhar Chiplunkar	16



**Signature of the Teacher**



**Head  
Department of Computer Science**



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

Shri Shivaji Education Society Amravati's  
**Science College, Congress Nagar, Nagpur**  
 Academic Session 2020-2021  
 Bachelor of computer Application (BCA) (Semester-II)  
 Paper-IV  
**DISCRETE MATHEMATICS - II**

**UNIT TEST**

**Time: 45 min.]**

**[Maximum Marks: 30**

**UNIT-III**

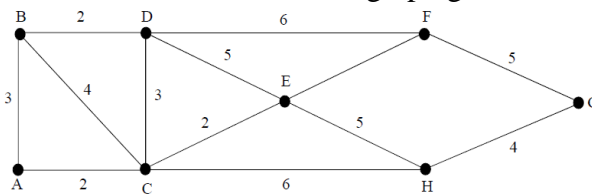
**QUE. 1. SOLVE ANY THREE**

- 1 If  $f$  is homomorphism from commutative semigroup  $(S, *)$  onto semigroup  $(T, *)$  then  $(T, *_-1)$  is also commutative. 5
- 2 Show that in a Boolean Algebra, for any  $a$  and  $b$ ,  
 $((a \vee c) \wedge (b' \vee c))' = (a' \vee b) \wedge c'$ . 5
- 3 Let  $f : G \rightarrow G^{-1}$  be a group of homomorphism prove that  $f$  is one to one if and only if  $\ker(f) = \{e\}$ . 5
- 4 Let  $(S, *)$  and  $(T, *)$  be monoids with identities  $e$  and  $e'$ , respectively. Let  $f : S \rightarrow T$  be an isomorphism then prove  $f(e) = e'$ . 5

**UNIT- IV**

**QUE. 2. SOLVE ANY THREE**

1. 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 Let  $A = \{v_1, v_2, v_3, v_4, v_5, v_6, v_7, v_8, v_9, v_{10}\}$  and  
 $T = \{(v_2, v_3), (v_2, v_1), (v_4, v_5), (v_4, v_6), (v_5, v_8), (v_6, v_7), (v_4, v_2), (v_7, v_9), (v_7, v_{10})\}$   
 Show that  $T$  is a rooted Tree and identify the root. 5
- 3 Find the Hamiltonian circuit for the graph given below:



- 4 Define:
 

(i) Graph	(ii) Subgraph	(iii) Quotient graph
(iv) Connected graph	(v) Degree of the Vertex	

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(2020-21)**

**Electronic Commerce Paper-VI**

**Result of Unit Test held on 20/2/2021 on Unit I and Unit II**

**Name of the teacher: Manisha.M.Chawle**

<b>Sr. No.</b>	<b>Name</b>	<b>Marks out of 30 in Unit I-II</b>
1	Aakansha Manik Malewar	16
2	Aanchal Ashwani Yadav	24
3	Aaysuh Ruplal Gour	7
4	Abhay Kapurchand Baghele	9
5	Aditya Sandeep Nageshwar	12
6	Aditya Sudhakar Parchand	24
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44	Manshri Arvind Mandiye	9
45	Minakshi Dhanvant Shiwankar	27



46	Mitali Ramesh Kathe	AA
47	Mohd. Jubair Amrullah Hasan Khan	7
48	Mohit Haribhau Fulkar	28
49	Navin Ravi Kaithwas	30
50	Nikita Umesh Shendre	29
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83	Sashant Dinanath Deoghare	AA
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106	Vaishnavi Kailash Gour	22
107	Yash Milind Raikwar	7
108	Yash Vijay Khedikar	22
109	Yash Dipak Jadhao	9
110	Yash Manohar Dahiwale	6
111	Yash Vinod Khanke	AA
112	Yashshree Vidyadhar Chiplunkar	AA

*mhowale*

**Signature of the Teacher**



**Head  
Department of Computer Science**



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

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Academic Session 2020-2021  
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 QUESTIONS:**

1. What is E-Commerce? Explain 4 P's in the context of marketing strategy. 5
2. Explain Porter's Value chain model. 5
3. Explain the concept of e-Market. 5
4. Explain the role of Internet in Ecommerce. 5

**UNIT-II**

**QUE. 1. SOLVE ANY THREE QUESTIONS:**

1. What is value chain and supply chain? Explain. 5
2. Explain the factors that need to be considered in developing business strategy. 5
3. Discuss the requirement of e-business along with challenges 5
4. What are the competitive advantages using e commerce 5



**Signature of the Teacher**



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

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

**BCA I Semester-II(2020-21)**

**Electronic Commerce Paper-VI**

**Result of Unit Test held on 10/4/2021 on Unit III and Unit IV**

**Name of the teacher: Manisha M. Chawale**

<b>Sr. No.</b>	<b>Name</b>	<b>Marks out of 30 in Unit III-IV</b>
1	Aakansha Manik Malewar	AA
2	Aanchal Ashwani Yadav	24
3	Aaysuh Ruplal Gour	AA
4	Abhay Kapurchand Baghele	19
5	Aditya Sandeep Nageshwar	12
6	Aditya Sudhakar Parchand	24
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112	Yashshree Vidyadhar Chiplunkar	AA

*mhowale*

**Signature of the Teacher**



**Head  
Department of Computer Science**



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

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

**Academic Session 2020-2021**  
**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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Congress Nagar, Nagpur

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

**Bachelor of Computer Application**

**B.C.A. I Semester-I (2020-21)**

**LINUX OPEARTING SYSTEM Paper-V**

**Result of Unit Test held on 20/09/2020 on Unit I & II**

**Name of the teacher: Manisha Chawale**

Sr. No	Name of the Students	Marks out of 30
1	Aakansha Manik Malewar	28
2	Aanchal Ashwani Yadav	21
3	Aaysuh Rupal Gour	25
4	Abhay Kapurchand Baghele	20
5	Aditya Sandeep Nageshwar	26
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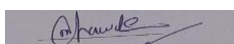
28	Darshan Sunil Jogi	27
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Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Academic Session 2020-2021**

**B.C.A. I Semester-I (2020-21)**

**LINUX OPERATING SYSTEM-V**

**UNIT I & UNIT II**

[Time: 48 min.]

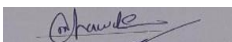
[Maximum Marks: 30]

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

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

**Que 2] Solve any three questions**

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



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SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**

**Bachelor of Computer Application**

**B.C.A. I Semester-I (2020-21)**

**LINUX OPERATING SYSTEM Paper-V**

**Result of Unit Test held on 12/04/2021 on Unit III & IV**

**Name of the teacher: Manisha Chawale**

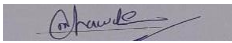
Sr. No	Name of the Students	Marks out of 30
1	Aakansha Manik Malewar	28
2	Aanchal Ashwani Yadav	21
3	Aaysuh Rupal Gour	25
4	Abhay Kapurchand Baghele	20
5	Aditya Sandeep Nageshwar	26
6	Aditya Sudhakar Parchand	17
7	Aditya Vinayak Kochare	13
8	Akash Ashok Zade	27
9	Aman Bandu Manwatkar	11
10	Aman Dilip Morghade	12
11	Anish Manish Gour	21
12	Anjali Ghamandilal Choudhary	10
13	Ankush Chandan Pounikar	29
14	Anshul Arvind Gedam	13
15	Anuja Vilas Masalkar	13
16	Archi Ashok Khandelwal	23
17	Arpita Govind Khavaskar	13
18	Arth Haridas Atkare	21
19	Ayas Jahid Pathan	12
20	Ayush Hemant Zade	20
21	Ayush Ramesh Chambhare	23
22	Ayush Shivaji Waghmare	27
23	Ayushi Arun Kawade	30
24	Bhairavi Gajanan Thakare	29
25	Bhavika Anil Raut	26
26	Chanchal Anil Chanap	23
27	Chetan Gunwantarao Khadse	10
28	Darshan Sunil Jogi	27
29	Devyani Sanjay Karangale	27
30	Dhanashri Vijaykumar Chitlange	21
31	Dipali Gangadhar Singade	22



32	Gulshan Kumar Prem Sharma	23
33	Harsh Manik Parate	24
34	Harshada Hansraj Zade	24
35	Harshada Vilas Bobade	19
36	Himanshu Krushanarao Deoghare	25
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**UNIT III & UNIT IV**

[Time: 48 min.]

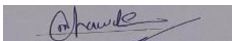
[Maximum Marks: 30]

**Que 1. Solve any three**

1. Explain top utility in detail. 5
2. Explain the following commands : 5  
(i) Chmod (ii) Chown.
3. Write steps to create a group account. 5
4. Define Process. Explain types of processes. 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 KDE Desktop environment in brief. 5
4. Explain purpose and syntax of write and wall command. 5



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