

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

**Bachelor of Computer Application**

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

**Software Engineering – I Paper-I**

**Result of Unit Test held on 13/03/2023 on Unit I & III**

**Name of the teacher: Puja Dadhe**

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**Signature of the Teacher**



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

**Shri Shivaji Education Society Amravati's**  
**Science College, Congress Nagar, Nagpur**  
**Academic Session (2022-2023)**  
**B.C.A. II Semester-IV (2022-23)**  
**Software Engineering Paper-I**

**UNIT I**

Que 1. Solve any three

- |   |   |
|---|---|
| 1. Explain components of software process in detail                 | 5 |
| 2. Differentiate between personal and team process models .         | 5 |
| 3. Explain different changing nature of software.                   | 5 |
| 4. What is Software Engineering? Explain evolving role of Software. | 5 |

**UNIT II**

Que 2. Solve any three

- |  |   |
|--|---|
| 1. Explain data models in detail                         | 5 |
| 2. Explain any one evolutionary process model in detail. | 5 |
| 3. Explain waterfall model with its diagram              | 5 |
| 4. Explain unified process in detail.                    | 5 |

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Science College, Congress Nagar, Nagpur**

**Academic Session (2020-2021)**

**B.C.A. II Semester-IV (2020-21)**

**Software Engineering Paper-I**

**UNIT III**

**Que 1. Solve any three**

1. Explain data models in detail. 5
2. What is Feasibility Study ? Explain need of Feasibility study. 5
3. Explain requirement validations for engineering process. 5
4. Explain context model in detail. 5

**UNIT IV**

**Que 2. Solve any three**

1. Explain architecture in Design concept. 5
2. Explain principles of designing output. 5
3. What are different elements considered in designing software ? 5
4. Explain Data Design elements and architectural design elements in detail. 5



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BCA II Semester-IV(2022-23)  
SUBJECT Paper-II  
Result of Unit Test held on 12/03/2023 on  
Unit I and UNIT II**

**Name of the teacher: P.m.Dadhe**

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Academic Session 2022-2023

Bachelor of computer Application (BCA) (Semester-IV)

Paper-I I

(SUBJECT PL- SQL)

**UNIT TEST**

**Time: 45 min.]**

**[Maximum**

**Marks: 30**

**UNIT-I**

**QUE. 1. SOLVE ANY THREE**

- (a) What is Exception ? Explain Exception handling in PL/SQL with suitable example. 5
- (b) Write a procedure in PL/SQL to increase the salaries of all employees in an organization by 10%. employee (Name, AGE, SEX, BASIC\_SAL). 5
- (c) What is Cursor ? Differentiate between implicit and explicit cursor. 5
- (d) What is Procedure ? Explain how to create a procedure using parameter. 5

**UNIT- II**

**QUE. 2. SOLVE ANY THREE**

- (a) What is Trigger ? Write a note on 'enabling and disabling trigger'. 5
- (b) Create a function that calculates and returns the factorial of a number. 5
- (c) Explain the use of BEFORE and AFTER triggers giving suitable examples. 5
- (d) Write a function that finds and returns the larger of two numbers. 5



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SUBJECT Paper-II

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Unit III and UNIT IV

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52.	KOHALE YASH ANIL	22
53.	KOLHE ISHITA NITIN	18
54.	KOLHE PIYUSH MORESHWAR	27
55.	KOTTARWAR DIYA PRAKASH	22
56.	KSHIRSAGAR SAHIL SUNIL	26
57.	KUKDE AYUSH RAJESH	13

58.	KUKUTKAR GAURI RAJENDRA	16
59.	KULKARNI SHUBHADA DINESH	15
60.	LAKADE LALIT DHANRAJ	20
61.	LATARE TUSHAR KISHOR	24
62.	LOKHANDE ABHIYUSH BANDU	22
63.	MAHER GUNJAN BIJOOSINGH	15
64.	MAKADE DIVYA ARVIND	25
65.	MANGATE VISHVAS BHARGAV	9
66.	MANKAR SHIVAM RAVINDRA	11
67.	MASKE JATIN PRASHANT	12
68.	MISHRA SAKSHI SANJAY	12
69.	MOHADIKAR MOHIT MOTILAL	23
70.	MOHOD VEDIKA VASANT	26
71.	MOON KRUNALI RAJESH	24
72.	MOTHARKAR SRUSHTI DASHRATH	12
73.	MULEY PURVASHA MANGESH	22
74.	NAGDEVE ANUGRA MUKUNDA	18
75.	NAGPURE JUHI SANJAY	27
76.	NIPANE SANIKA VILAS	22
77.	PADOLE AYUSHI YOGESH	26
78.	PAL ESHIKA GANESH	13
79.	PALIWAL ADITI SUBHASH	16
80.	PANDE ABHINAV ABHAY	15
81.	PARATE RIYA LAXMAN	20
82.	PARATE VEDANT NARENDRA	24
83.	PATIL ANUBHAV ANIL	22
84.	PATIL SHUBHAM ARUN	17
85.	PATIL TEJAS FAKIRA	25
86.	POHANE SHRUTI RAJENDRA	9
87.	RAMTEKE SHRUTI SHRIKANT	11
88.	RAUT SHRUTI SUBHASH	12
89.	SAHARE VISHAL JEEVAN	12

90.	SAYAM MANISH JIJARAM	23
91.	SHANIWARE UEDITANSHU SANJAY	26
92.	SHA STRAKAR KARAN BABAN	24
93.	SHEIKH ADNAN LATIF	12
94.	SHEIKH MOHD FAIZAN ABDUL MUSTAQUE	22
95.	SHIVANKAR KRUPALI SANJAY	18
96.	SHUKLA ANAMIKA MAHENDRA	27
97.	SHUKLA PRIYANKA BABBU	22
98.	SIDDIQUI SANA BANO SHAHID AHEMAD	26
99.	SINGH SANDHYA TARKESHWAR	13
100.	SONULE AISHWARYA SHESHRAO	16
101.	TEMBHARE ASHWIN ANIL	15
102.	THAKRE ANUSHRI MOHAN	20
103.	THAKUR SNEHA MAHENDRASINGH	24
104.	TIRPUDE AMRUT UMESH	22
105.	TODSAM NANDINI LAKHAMA	16
106.	VAIRAGADE ATHARV PRAMOD	25
107.	VELHANKAR NISHANT MILIND	9
108.	WAGH VAISHNAVI ASHOK	11
109.	WANDHARE HIMANSHU RAMRAO	12
110.	WANKHADE MANSI PRADEEP	12
111.	WARHADE RAJ ANIL	23
112.	WATEKAR YASH RAJABHAU	26
113.	YADAV RUPANSHU BABBAN	24
114.	YESANSURE MOHAN YASHVANT	12
115.		

**Signature of the Teacher**

**Head  
Department of Computer Science**

Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Academic Session 2022-2023  
Bachelor of computer Application (BCA) (Semester-IV)  
Paper-I I  
(SUBJECT PL- SQL)

**UNIT TEST**

**Time: 45 min.]**  
**Marks: 30**

**[Maximum**

**UNIT-III**

**QUE. 1. SOLVE ANY THREE**

- (a) Explain different operators in SQL. 5
- (b) Explain the following constraints : (i) Foreign key constraint (ii) Check constraint. 5
- (c) Write a short note on sequence and synonyms. 5
- (d) Give syntax, purpose and example for : (i) SELECT using order by clause (ii) SELECT using Group by and Having clause 5

**UNIT- IV**

**QUE. 2. SOLVE ANY THREE**

- (a) What is a view ? Write the rules for updating views. Also write down the syntax and example for updating 5
- (b) Write a program in PL/SQL to swap the values of two variables without using a third variable. 5
- (c) Write short notes on object view and read only view 5
- (d) Write a PL/SQL code to find the largest of three numbers 5



**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.**

**BCAII Semester-IV (2022-23)**

**Theory of Computation**

**Paper-III**

**Result of Unit Test held on 1/03/2023 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	Aaditi Subhash Paliwal	16
2	Aishwarya Sheshrao Sonule	21
3	Anamika Mahendra Shukla	13
4	Anisha Ashwin Jamgade	28
5	Anushka Chandrakant Asatkar	13
6	Anushri Mohan Thakre	23
7	Apurva Pritish Akarte	26
8	Apurva Viveksingh Khannade	11
9	Arya Promod Khasbage	22
10	Ashlesha Devidas Dhokne	15
11	Ayushi Yogesh Padole	25
12	Divya Arvind Makade	AB
13	Divyanee Shravan Awarkar	AB
14	Diya Prakash Kottarwar	28
15	Eshika Ganesh Pal	23
16	Gargi Omprakash Bisen	7
17	Gauri Rajendra Kukutkar	6
18	Gunjan Bijooosingh Maher	12
19	Ishita Nitin Kolhe	8
20	Juhi Sanjay Nagpure	11
21	Komal Madhu Bhosale	8
22	Krunali Rajesh Moon	25
23	Mahi Moreshwar Bhoikar	22
24	Manasi Sharad Daware	21
25	Manshu Jaykumar Dhengre	20
26	Mansi Pradeep Wankhade	10
27	Nandini Lakhama Todsam	7
28	Nidhi Ganesh Borkar	21
29	Priyanka Babbu Shukla	26
30	Prutha Pravin Gomkale	27
31	Purvasha Mangesh Muley	5
32	Riya Laxman Parate	6
33	Saania Saeed Khan	15
34	Sakshi Sanjay Mishra	12
35	Saloni Ravi Harode	17
36	Samanta Shailesh Choudhary	5

37	Samiksha Satish Kharbade	18
38	Sampriti Asuraj Ganvir	AB
39	Samruddhi Vinod Bhiwgade	AB
40	Sana Bano Shahid Ahemad Siddiqui	AB
41	Sandhya Tarkeshwar Singh	12
42	Sanika Vilas Nipane	8
43	Sanskruiti Suresh Agrawal	17
44	Sejal Ravindra Barve	6
45	Shruti Rajendra Pohane	14
46	Shruti Shrikant Ramteke	10
47	Shruti Subhash Raut	14
48	Siddhi Chandrashekhar Kohad	23
49	Sneha Mahendrasingh Thakur	7
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51	Snehal Pramod Armarkar	8
52	Srushti Dashrath Motharkar	13
53	Sujal Sudhir Dhoke	13
54	Surabhi Subrota Ghosh	25
55	Swejal Sanjay Gautam	13
56	Vaibhavi Devidas Chatur	26
57	Vaishnavi Ashokrao Wagh	8
58	Vedika Vasant Mohod	5
59	Yashasvi Kishor Gholse	8
60	Abhinav Abhay Pande	22
61	Abhiyush Bandu Lokhande	17
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64	Anubhav Anil Patil	11
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66	Ashwin Anil Tembhare	25
67	Atharv Pramod Vairagade	AB
68	Atul Laxmikant Khodaskar	AB
69	Ayush Rajesh Kukade	AB
70	Harish Sunil Adolkar	18
71	Harsh Radheshyam Khinchi	22
72	Himanshu Ramrao Wandhare	22
73	Janhvi Prashant Kapre	7
74	Jatin Prashant Maske	21
75	Karan Babanrao Shastrakar	14
76	Karan Rekhchand Chandekar	AB
77	Khomeswar Rajesh Deshmukh	AB
78	Lalit Dhanraj Lakade	25
79	Mahesh Laxmanrao Kajale	26
80	Manish Jijaram Sayam	23
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84	Nishant Milind Velhankar	20
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87	Piyush Moreshwar Kolhe	16
88	Prathamesh Vinod Gupta	21
89	Pratik Ashok Barapatre	6
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91	Priyanshu Manish Bisani	15
92	Raj Anil Warhade	28
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94	Sahil Sunil Kshirsagar	25
95	Shivam Rajendra Gaidhane	23
96	Shivam Ravindra Mankar	12
97	Shubham Arun Patil	AB
98	Siddhant Ashokrao Dandi	AB
99	Sujal Prabhakar Baraskar	20
100	Tejas Fakira Patil	20
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102	Tushar Kishor Latore	5
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104	Vedant Narendra Parate	23
105	Vedant Pramod Baghel	24
106	Vibhanshu Raju Khobragade	13
107	Vishal Jivan Sahare	15
108	Vishvas Bhargav Mangate	AB
109	Yash Anil Kohale	AB
110	Yash Rajabhau Watekar	18



**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-IV)  
Paper-III  
THEORY OF COMPUTATION

UNIT TEST

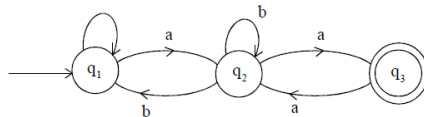
Time: 45 min.]

[Maximum Marks: 30

UNIT-I

QUE. 1. SOLVE ANY THREE

1. Find the regular expression for the following finite automata:



- 2 Prove that: Let L be a set accepted by NFA. Then there exist DFA that accepts L. 5
- 3 Explain two-way finite automata. 5
- 4 Construct NFA for the regular expression  $01^* + 1$ . 5

UNIT- II

QUE. 2. SOLVE ANY THREE

- 1 Define:  
(i) Transitive closure of R  
(ii) Reflexive and transitive closure of R. 5
- 2 Define CNF. Find a grammar in CNF equivalent to:  
 $S \rightarrow aAbB$   
 $A \rightarrow aA/a$   
 $B \rightarrow bB/b$  5
- 3 State the Pumping lemma for regular set. What are its applications? 5
- 4 Show that  $L = \{0^i 1^i \mid i \geq 1\}$  is not regular. 5

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.**

**BCAII Semester-IV (2022-23)**

**Theory of Computation**

**Paper-III**

**Result of Unit Test held on 26/04/2023 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	Aaditi Subhash Paliwal	7
2	Aishwarya Sheshrao Sonule	28
3	Anamika Mahendra Shukla	18
4	Anisha Ashwin Jamgade	14
5	Anushka Chandrakant Asatkar	19
6	Anushri Mohan Thakre	AB
7	Apurva Pritish Akarte	AB
8	Apurva Viveksingh Khannade	23
9	Arya Promod Khasbage	13
10	Ashlesha Devidas Dhokne	23
11	Ayushi Yogesh Padole	14
12	Divya Arvind Makade	16
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14	Diya Prakash Kottarwar	28
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24	Manasi Sharad Daware	19
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36	Samanta Shailesh Choudhary	24
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39	Samruddhi Vinod Bhiwgade	12
40	Sana Bano Shahid Ahemad Siddiqui	6
41	Sandhya Tarkeshwar Singh	20
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44	Sejal Ravindra Barve	8
45	Shruti Rajendra Pohane	23
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48	Siddhi Chandrashekhar Kohad	9
49	Sneha Mahendrasingh Thakur	11
50	Snehal Gajanan Dighore	13
51	Snehal Pramod Armarkar	8
52	Srushti Dashrath Motharkar	17
53	Sujal Sudhir Dhoke	28
54	Surabhi Subrota Ghosh	14
55	Swejal Sanjay Gautam	27
56	Vaibhavi Devidas Chatur	28
57	Vaishnavi Ashokrao Wagh	15
58	Vedika Vasant Mohod	11
59	Yashasvi Kishor Gholse	AB
60	Abhinav Abhay Pande	15
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62	Adnan Latif Sheikh	19
63	Amrut Umesh Tirpude	14
64	Anubhav Anil Patil	14
65	Anugra Mukunda Nagdeve	22
66	Ashwin Anil Tembhare	AB
67	Atharv Pramod Vairagade	23
68	Atul Laxmikant Khodaskar	7
69	Ayush Rajesh Kukade	23
70	Harish Sunil Adolkar	20
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72	Himanshu Ramrao Wandhare	20
73	Janhvi Prashant Kapre	25
74	Jatin Prashant Maske	16
75	Karan Babanrao Shastrakar	11

76	Karan Rekhchand Chandekar	17
77	Khomeswar Rajesh Deshmukh	13
78	Lalit Dhanraj Lakade	AB
79	Mahesh Laxmanrao Kajale	AB
80	Manish Jijaram Sayam	14
81	Mohan Yashvant Yesansure	12
82	Mohd Faizan Abdul Mushtaque Sheikh	24
83	Mohit Motilal Mohadikar	7
84	Nishant Milind Velhankar	16
85	Parag Dhanraj Giripunje	6
86	Pavan Kisan Bharde	12
87	Piyush Moreshwar Kolhe	7
88	Prathamesh Vinod Gupta	28
89	Pratik Ashok Barapatre	11
90	Pratik Govinrao Deshmukh	13
91	Priyanshu Manish Bisani	13
92	Raj Anil Warhade	11
93	Rupanshu Babban Yadav	25
94	Sahil Sunil Kshirsagar	21
95	Shivam Rajendra Gaidhane	15
96	Shivam Ravindra Mankar	AB
97	Shubham Arun Patil	AB
98	Siddhant Ashokrao Dandi	24
99	Sujal Prabhakar Baraskar	14
100	Tejas Fakira Patil	9
101	Toshik Santosh Dahikar	13
102	Tushar Kishor Latare	15
103	Uditanshu Sanjay Shaniware	10
104	Vedant Narendra Parate	16
105	Vedant Pramod Baghel	5
106	Vibhanshu Raju Khobragade	15
107	Vishal Jivan Sahare	19
108	Vishvas Bhargav Mangate	AB
109	Yash Anil Kohale	AB
110	Yash Rajabhau Watekar	7



**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-IV)  
Paper-III  
THEORY OF COMPUTATION

**UNIT TEST**

**Time: 45 min.]**

**[Maximum Marks: 30**

**UNIT-III**

**QUE. 1. SOLVE ANY THREE**

- |    |  |   |
|----|--|---|
| 1. | Explain Chomsky Normal form with suitable example.           | 5 |
| 2  | Explain the process of eliminating useless symbols from CFG. | 5 |
| 3  | Explain Greibach Normal form with suitable example.          | 5 |
| 4  | Explain closure properties of context free language.         | 5 |

**UNIT- IV**

**QUE. 2. SOLVE ANY THREE**

- |   |   |   |
|---|---|---|
| 1 | Discuss about PDA acceptance :<br>(i) From empty stack to final state.<br>(ii) From final state to empty stack. | 5 |
| 2 | Define a PDA. Give an example for a Language accepted PDA by empty stack.                                       | 5 |
| 3 | Construct PDA for language :<br>$L = \{ ww^R/w \text{ in } (a+b)^* \}$ .  | 5 |
| 4 | If L is context free language, then prove that there exists PDA M such that $L = N(M)$ .                        | 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 II Semester-IV(2023-24)**

**Operation Research-II Paper-IV**

**Result of Unit Test held on 1/10/2023on**

**Unit I and Unit II**

**Name of The Teacher: -A.U. Bansinge**

<b>Sr. No.</b>	<b>Name</b>	<b>Marks out of 30</b>
1	AACHAL RAJNAND ARVERKAR	18
2	AAYUSH RAJENDRA TAREKAR	12
3	ABHISHEK SANJAY THOKAL	11
4	ADITYA KAILAS MANE	18
5	AISHWARYA NAMDEV LATKAR	20
6	AKANKSHA AJAYKUMAR SHENDE	25
7	ALKESH ARUN MAHAMUNE	26
8	ANSH MOHAN PIMPLE	28
9	ANSHU GUNWANT YEKUDE	22
10	ANUJA VILAS ZADE	21
11	ANUPAM RAKESH PANDEY	30
12	ANURAG GANESH MASRAM	25
13	ANURAG RAJESH WASNIK	28
14	ARCHANA TEJRAM SHARNAGATE	27
15	AYUSH BABAN PAWAR	24
16	AYUSH RAJESH DUBEY	15
17	CHETNA SUNIL HEDAU	11
18	DARSHAN SUDESH KAMBLE	15

19	DEVASHISH SANTOSHKUMAR TEMBHARE	19
20	EKNATH VIJAY KAPSE	20
21	GAURAV LAXMICHAND RAHANGDALE	21
22	HARSH ASHISH KSHIRSAGAR	23
23	HARSH HARISH GAIKWAD	24
24	HARSHAL RAJU DAF	25
25	HARSHALI ASHOK TAKALKHEDE	18
26	HIMANSHU YASHWANT GAIDHANE	12
27	ISHWESHWARI RAJENDRA THAKRE	11
28	KAJAL ASHOK UMARE	18
29	KALASH SUKRAM GONDHULE	20
30	KARINA PARASRAM ATRAHE	25
31	KARTAVYA PRAKASH BADGE	26
32	KARTIK SUDHAKAR BAMBAL	28
33	KHUSHEE UDELAL PARDHI	22
34	KHUSHI ASHOK GHATE	21
35	KHUSHI MANOJ BHAGAT	23
36	KOMAL KAILASH PATIYE	25
37	KRUNAL AJAY KUHITE	28
38	LEENA MURLIDHAR YENKAR	27
39	MAHIMA RAJENDRA BHASMOTE	24
40	MAI RAMDAS BANSOD	15
41	MANAS SHAILENDRA KOKATE	11
42	MOIN ABDUL WAHID KHAN	15
43	MUGHEES UR SHAFIQR RAHMAN ANSARI	19
44	MUSHFIQUE MEHBOOB ALI	20
45	NAMRATA PRAMOD THAWARE	21
46	NANDINI PRAVINSINGH SURYAWANSHI	23
47	NANDINI VIJAYRAO KHANDARE	24
48	NAYANI SUNIL BORKAR	25
49	NEHA VIJAY VAIDYA	18

50	NIDHI KOMAL CHANDEL	12
51	NIKITA SATISH WARATKAR	11
52	NILESH HIRJI SHAHARE	18
53	NISARGA SANJAY HADKE	20
54	NITESH NEHARULAL PATRE	25
55	OM PANKAJ THORAT	26
56	PAWAN HOMRAJ SATPUTE	28
57	PAWANKUMAR RAMKISHOR GOKHE	22
58	PAYAL JAYENDRA AMBULE	21
59	PIYUSH CHANDRAMANI KHANDEKAR	23
60	PRACHI DNYANESHWAR BARDE	25
61	PRACHI MAHESH HULKE	28
62	PRAJWAL ASHOKRAO CHAUDHARI	27
63	PRANALI PRABHAKAR NAGPURE	24
64	PRANAY VAISRAJ GEDAM	15
65	PRANJAL RAJESH AMBULKAR	11
66	PRANJALI CHANDRAKANT KATRE	15
67	PRASHANT KISANAJI HIRUDKAR	19
68	PRATHMESH SHRAWAN ZADE	20
69	PRATIK TULSHIRAM BHUJADE	21
70	PRITI BIJENDRA PANDEY	23
71	PUJAN SANJAY SHAHARE	24
72	PUSHPAK ANIL TAMBULKAR	25
73	RAJNI MANOJRAO PISE	18
74	REHAN SHAHEJAD FARUKI	12
75	RISHITA ASHOK RAUT	11
76	RUCHIKA SHANKAR MESHRAM	18
77	RUPESH RAJENDRA GHUMARE	20
78	SAGAR SUNIL KALBANDHE	25
79	SAHIL GANESH BHEDE	26
80	SAHIL RAVINDRA CHOUDHARI	28



81	SAMIKSHA NARENDRA NAKSHANE	22
82	SAMIKSHA PRAKASH DUPARE	21
83	SANCHALI RAMKRUSHNA DHOTE	23
84	SANJANA VINOD WELE	25
85	SANKET KISHOR TIKHADE	28
86	SARANG NARENDRA BURDE	27
87	SARVESH RAMESH SAHARE	24
88	SAURABH GANESH GAIKWAD	15
89	SAYYAM SHYAMKUMAR CHICKHEDE	11
90	SHARDUL SUDHIR GARADE	15
91	SHIVAM RAMESH NACHANKAR	19
92	SHRAVANI VINOD DESHMUKH	20
93	SHREYA LAHU WAGH	21
94	SHRUSTI RAJESH RAMTEKE	23
95	SHWETA BALKRUSHNA BADKHAL	24
96	SIDDHESH SUBHASH GUHE	25
97	SNEHA SANDIP WASNIK	18
98	SNEHAL RAVINDRA RAJGE	12
99	TANMAY PREMGOPAL MALGHATE	11
100	TANUSHREE RAM JAULKAR	18
101	TANUSHREE REVNATH KOLHEKAR	20
102	TANVI DINESH TURKAR	25
103	TANVI RAJEEV DEDHE	26
104	TEJAS DNYANESHWAR WANKHEDE	28
105	TEJASWINI PUNDLIK YEKUDE	22
106	TRINKAL SANJAY DHALE	21
107	TRUPTI ASHOK PATLE	23
108	TULSI UMAKANT MALGHATE	25
109	TUSHAR BHAUJI BAGADE	28
110	VAIBHAVI CHANDRASHEKHAR MESHAM	27
111	VAIBHAVI DHANPAL PATLE	24

112	VAISHALI MADHUKAR CHAUDHARI	15
113	VAISHNAVI SUNIL GAIKWAD	11
114	VAISHNAVI VINOD MAHAKALKAR	15
115	VANSHIKA ARUN KHANDATE	19
116	VIKAS NAMDEO SANAP	20
117	YASH NARESH SONBARSE	21
118	YASH PRAVIN KHARABE	23
119	YASHASHREE RAMESHRAO PADWE	24
120	Shlok Yadav	22
121	Anurag Mishra	21

*Signature*

**Signature of the Teacher**

*Signature*

**Head  
Department of Computer Science**



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

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur  
Academic Session 2023-2024  
Bachelor of Computer Application (B.C.A) (Semester-IV)  
Operation Resarch-II, Paper-IV  
UNIT TEST on Unit I - II**

[ Time: 45 min.]

[Maximum Marks: 30]

**UNIT-I**

**QUE. 1. SOLVE ANY THREE**

- |  |   |
|--|---|
| 1.Explain Game theory with its assumption.         | 5 |
| 2.Explain the method of Games without saddle point | 5 |
| 3.Write the application of game theory             | 5 |
| 4. Explain the graphical method for $2*n$ games    | 5 |

**UNIT-II**

**QUE. 1. SOLVE ANY THREE**

- |  |   |
|--|---|
| 1.Define Event, activity, looping, Dangling.                         | 5 |
| 2. Explain Different time estimates made for each activity for PERT. | 5 |
| 3.State the difference between CPM and PERT                          | 5 |
| 4.Write down the rules for network construction.                     | 5 |



**Signature of the Teacher**



**Head**

**Department of Computer Science**



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

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S**

**SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**

**BCA II Semester-IV(2023-24)**

**Operation Research-II Paper-IV**

**Result of Unit Test held on 5/2/2023 on**

**Unit III and Unit IV**

**Name of The Teacher: -A.U. Bansinge**

<b>Sr. No.</b>	<b>Name</b>	<b>Marks out of 30</b>
1	AACHAL RAJNAND ARVERKAR	18
2	AAYUSH RAJENDRA TAREKAR	12
3	ABHISHEK SANJAY THOKAL	11
4	ADITYA KAILAS MANE	18
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**Signature of the Teacher**



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Science College, Congress Nagar, Nagpur  
Academic Session 2023-2024  
Bachelor of Computer Application (B.C.A) (Semester-IV)  
Operation Resarch-II, Paper-IV  
UNIT TEST on Unit III - IV**

[ Time: 45 min.]

[Maximum Marks: 30]

**UNIT-III**

**QUE. 1. SOLVE ANY THREE**

- |   |   |
|---|---|
| 1.Explain Game theory with its assumption.      | 5 |
| 2.What is Queing Theory?Explain                 | 5 |
| 3.Write the application of game theory          | 5 |
| 4. Explain the graphical method for $2*n$ games | 5 |

**UNIT-IV**

**QUE. 1. SOLVE ANY THREE**

- |  |   |
|--|---|
| 1.Define Event, activity, looping, Dangling.                         | 5 |
| 2. Explain Different time estimates made for each activity for PERT. | 5 |
| 3.State the difference between CPM and PERT                          | 5 |
| 4.Write down the rules for network construction.                     | 5 |



**Signature of the Teacher**



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**Science College, Congress Nagar, Nagpur**  
**Academic Session 2022-2023**  
**Bachelor of Computer Application (B.C.A) (Semester-IV)**  
**Web Technology-II**  
**Result of Unit Test Held on 29-2-23**  
**UNIT TEST on Unit I &UNIT-II**

Name of Teacher-Manisha Kongre

Sr. No.	Name	Marks out of 30
1	AACHAL RAJNAND ARVERKAR	18
2	AAYUSH RAJENDRA TAREKAR	12
3	ABHISHEK SANJAY THOKAL	ABSENT
4	ADITYA KAILAS MANE	18
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*M. Kongre*

**Signature of the Teacher**

*[Signature]*

**Head  
Department of Computer Science**



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

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

[ Time: 45 min.]

[Maximum Marks: 30

**Q.1 UNIT-I**

**Solve Any Three**

- A. Explain JSP lifecycles in detail. [05]  
B. Explain Date object and Math object used in JSP. [05]  
C. Write a program to insert an image in JSP [05]  
D. Explain string object in Javascript. Also explain any two functions of it [05]

**Q.2 UNIT-II**

**Solve Any Three**

- A. What is exception ? Write a program for exception handling in JSP [05]  
B. What is Scriptlet ? Explain scriptlet tag in detail.. [05]  
C. Explain JSP object scope in detail. [05]  
D. What is Scriptlet ? Explain scriptlet tag in detail [05]



**Signature of the Teacher**



**Head**

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**Science College, Congress Nagar, Nagpur**  
**Academic Session 2022-2023**  
**Bachelor of Computer Application (B.C.A) (Semester-IV)**  
**Sub-Webtechnology-II**  
**Result of Unit Test held on 23-4-23**  
**UNIT-III and IV**

Name of Teacher-Manisha Kongre

Sr. No.	Name	Marks out of 30
1	AACHAL RAJNAND ARVERKAR	18
2	AAYUSH RAJENDRA TAREKAR	12
3	ABHISHEK SANJAY THOKAL	20
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**Signature of the Teacher**

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Academic Session 2022-2023  
Bachelor of Computer Application (B.C.A) (Semester-IV)  
Paper- V  
WEB-TECHNOLOGY-II  
UNIT TEST on Unit III - IV**

[ Time: 45 min.]

[Maximum Marks: 30

**Q.1 UNIT-III**

**Solve Any Three**

- A. Write a program to sort 10 elements by using VB Script. [05]  
B. Explain subroutines and functions in VB Script. [05]  
C. Write a program in VB Script to find largest among three numbers. [05]  
D. Explain any two datatype used in VB Script. [05]

**Q.2 UNIT-IV**

**Solve Any Three**

- A. Explain Simple Object Access Protocol (SOAP) web services in detail. [05]  
B. Explain representation state transfer based web services [05]  
C. Differentiate between SOAP and REST [05]  
D. Explain REpresentation State Transfer (REST) based Web Services [05]



**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-IV)  
Sub-Web Technology-II  
Result of Unit Test Held on 29-2-23  
UNIT TEST on Unit I &UNIT-II**

Name of Teacher-Manisha Kongre

<b>Sr. No.</b>	<b>Name</b>	<b>Marks out of 30</b>
1	AACHAL RAJNAND ARVERKAR	18
2	AAYUSH RAJENDRA TAREKAR	12
3	ABHISHEK SANJAY THOKAL	ABSENT
4	ADITYA KAILAS MANE	18
5	AISHWARYA NAMDEV LATKAR	20
6	AKANKSHA AJAYKUMAR SHENDE	22
7	ALKESH ARUN MAHAMUNE	22
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10	ANUJA VILAS ZADE	21
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13	ANURAG RAJESH WASNIK	27
14	ARCHANA TEJRAM SHARNAGATE	27
15	AYUSH BABAN PAWAR	20
16	AYUSH RAJESH DUBEY	12
17	CHETNA SUNIL HEDAU	15
18	DARSHAN SUDESH KAMBLE	13
19	DEVASHISH SANTOSHKUMAR TEMBHARE	17
20	EKNATH VIJAY KAPSE	ABSENT
21	GAURAV LAXMICHAND RAHANGDALE	20
22	HARSH ASHISH KSHIRSAGAR	23
23	HARSH HARISH GAIKWAD	12
24	HARSHAL RAJU DAF	24
25	HARSHALI ASHOK TAKALKHEDE	23

26	HIMANSHU YASHWANT GAIDHANE	27
27	ISHWESHWARI RAJENDRA THAKRE	28
28	KAJAL ASHOK UMARE	11
29	KALASH SUKRAM GONDHULE	13
30	KARINA PARASRAM ATRAHE	14
31	KARTAVYA PRAKASH BADGE	15
32	KARTIK SUDHAKAR BAMBAL	17
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35	KHUSHI MANOJ BHAGAT	22
36	KOMAL KAILASH PATIYE	23
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38	LEENA MURLIDHAR YENKAR	26
39	MAHIMA RAJENDRA BHASMOTE	27
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43	MUGHEES UR SHAFIQR RAHMAN ANSARI	17
44	MUSHFIQUE MEHBOOB ALI	18
45	NAMRATA PRAMOD THAWARE	ABSENT
46	NANDINI PRAVINSINGH SURYAWANSHI	23
47	NANDINI VIJAYRAO KHANDARE	22
48	NAYANI SUNIL BORKAR	25
49	NEHA VIJAY VAIDYA	23
50	NIDHI KOMAL CHANDEL	22
51	NIKITA SATISH WARATKAR	26
52	NILESH HIRJI SHAHARE	27
53	NISARGA SANJAY HADKE	24
54	NITESH NEHARULAL PATRE	22
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56	PAWAN HOMRAJ SATPUTE	26
57	PAWANKUMAR RAMKISHOR GOKHE	27

58	PAYAL JAYENDRA AMBULE	28
59	PIYUSH CHANDRAMANI KHANDEKAR	29
60	PRACHI DNYANESHWAR BARDE	23
61	PRACHI MAHESH HULKE	11
62	PRAJWAL ASHOKRAO CHAUDHARI	12
63	PRANALI PRABHAKAR NAGPURE	14
64	PRANAY VAISRAJ GEDAM	15
65	PRANJAL RAJESH AMBULKAR	16
66	PRANJALI CHANDRAKANT KATRE	16
67	PRASHANT KISANAJI HIRUDKAR	17
68	PRATHMESH SHRAWAN ZADE	18
69	PRATIK TULSHIRAM BHUJADE	18
70	PRITI BIJENDRA PANDEY	13
71	PUJAN SANJAY SHAHARE	21
72	PUSHPAK ANIL TAMBULKAR	22
73	RAJNI MANOJRAO PISE	24
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75	RISHITA ASHOK RAUT	26
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80	SAHIL RAVINDRA CHOUDHARI	15
81	SAMIKSHA NARENDRA NAKSHANE	16
82	SAMIKSHA PRAKASH DUPARE	15
83	SANCHALI RAMKRUSHNA DHOTE	18
84	SANJANA VINOD WELE	19
85	SANKET KISHOR TIKHADE	20
86	SARANG NARENDRA BURDE	22
87	SARVESH RAMESH SAHARE	22
88	SAURABH GANESH GAIKWAD	23
89	SAYYAM SHYAMKUMAR CHICKHEDE	24

90	SHARDUL SUDHIR GARADE	26
91	SHIVAM RAMESH NACHANKAR	ABSENT
92	SHRAVANI VINOD DESHMUKH	12
93	SHREYA LAHU WAGH	23
94	SHRUSTI RAJESH RAMTEKE	11
95	SHWETA BALKRUSHNA BADKHAL	22
96	SIDDHESH SUBHASH GUHE	22
97	SNEHA SANDIP WASNIK	23
98	SNEHAL RAVINDRA RAJGE	24
99	TANMAY PREMGOPAL MALGHATE	26
100	TANUSHREE RAM JAULKAR	22
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103	TANVI RAJEEV DEDHE	18
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105	TEJASWINI PUNDLIK YEKUDE	25
106	TRINKAL SANJAY DHALE	26
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110	VAIBHAVI CHANDRASHEKHAR MESHRAM	11
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112	VAISHALI MADHUKAR CHAUDHARI	20
113	VAISHNAVI SUNIL GAIKWAD	21
114	VAISHNAVI VINOD MAHAKALKAR	19
115	VANSHIKA ARUN KHANDATE	18
116	VIKAS NAMDEO SANAP	20
117	YASH NARESH SONBARSE	25
118	YASH PRAVIN KHARABE	26
119	YASHASHREE RAMESHRAO PADWE	18
120	Shlok Yadav	20
121	Anurag Mishra	25



**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-IV)**  
**Sub-Web Technology-II**  
**Result of Unit Test held on 23-4-23**  
**UNIT-III,UNIT-IV**

Name of Teacher-Manisha Kongre

<b>Sr. No.</b>	<b>Name</b>	<b>Marks out of 30</b>
1	AACHAL RAJNAND ARVERKAR	18
2	AAYUSH RAJENDRA TAREKAR	12
3	ABHISHEK SANJAY THOKAL	20
4	ADITYA KAILAS MANE	18
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94	SHRUSTI RAJESH RAMTEKE	23
95	SHWETA BALKRUSHNA BADKHAL	24
96	SIDDHESH SUBHASH GUHE	25
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104	TEJAS DNYANESHWAR WANKHEDE	28
105	TEJASWINI PUNDLIK YEKUDE	22
106	TRINKAL SANJAY DHALE	ABSENT
107	TRUPTI ASHOK PATLE	23
108	TULSI UMAKANT MALGHATE	25
109	TUSHAR BHAUJI BAGADE	28
110	VAIBHAVI CHANDRASHEKHAR MESHRAM	27
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112	VAISHALI MADHUKAR CHAUDHARI	15
113	VAISHNAVI SUNIL GAIKWAD	11
114	VAISHNAVI VINOD MAHAKALKAR	ABSENT
115	VANSHIKA ARUN KHANDATE	19
116	VIKAS NAMDEO SANAP	20
117	YASH NARESH SONBARSE	21
118	YASH PRAVIN KHARABE	23
119	YASHASHREE RAMESHRAO PADWE	ABSENT
120	Shlok Yadav	22

121	Anurag Mishra	21
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**Signature of the Teacher**



**Head  
Department of Computer Science**



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

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

**Department of Computer Science  
BCA II Semester-III (2022-23)  
DIGITAL ELECTRONICS—I Paper—VI**

**Result of Unit Test held on 1/02/2023 on Unit I & Unit II  
Name of the teacher: Amruta J. Thakur**

<b>Sr</b>	<b>Name of Students</b>	<b>Marks Out of 30</b>
1.	AACHAL RAJNAND ARVERKAR	11
2.	AISHWARYA NAMDEV LATKAR	12
3.	AKANKSHA AJAYKUMAR SHENDE	14
4.	ANSHU GUNWANT YEKUDE	21
5.	ANUJA VILAS ZADE	AA
6.	ARCHANA TEJRAM SHARNAGATE	AA
7.	CHETANA SUNIL HEDAU	25
8.	HARSHALI ASHOK TAKALKHEDE	13
9.	ISHWESHWARI RAJENDRA THAKRE	29
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16.	MAHIMA RAJENDRA BHASMOTE	14
17.	MAI RAMDAS BANSOD	21
18.	NAMRATA PRAMOD THAWARE	AA
19.	NANDINI PRAVIN SURYAWANSHI	AA
20.	NANDINI VIJAY KHANDARE	25
21.	NAYANI SUNIL BORKAR	13
22.	NEHA VIJAY VAIDYA	29
23.	NIDHI KOMAL CHANDEL	25

24.	NIKITA SATISH WARATKAR	10
25.	PRACHI DNYANESHWAR BARDE	13
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29.	PRITI BRIJENDRA PANDEY	15
30.	RAJNI MANOJRAO PISE	21
31.	RISHITA ASHOK RAUT	AA
32.	RUCHIKA SHANKAR MESHARAM	AA
33.	SAMIKSHA NARENDRA NAKSHANE	25
34.	SAMIKSHA PRAKASH DUPARE	13
35.	SANCHALI RAMKRUSHNA DHOTE	AA
36.	SANJANA VINOD WELE	25
37.	SHRAVANI VINOD DESHMUKH	10
38.	SHREYA LAHU WAGH	13
39.	SHRUSTI RAJESH RAMTEKE	18
40.	SHWETA BALKRUSHNA BADKHAL	19
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55.	VANSHIKA ARUN KHANDATE	13
56.	YASHASHREE RAMESHRAO PADWE	18

57.	AAYUSH RAJENDRA TAREKAR	15
58.	ABHISHEK SANJAY THOKAL	AA
59.	ADITYA KAILAS MANE	AA
60.	ALKESH ARUN MAHAMUNE	18
61.	ANUPAM RAKESH PANDEY	15
62.	ANURAG GANESH MASRAM	AA
63.	ANURAG RAJESH WASNIK	AA
64.	AYUSH BABAN PAWAR	AA
65.	AYUSH RAJESH DUBEY	25
66.	DARSHAN SUDESH KAMBLE	10
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88.	PRAJWAL ASHOKRAO CHAUDHARI	AA
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91.	PRASHANT KISANAJI HIRUDKAR	AA



92.	PRATHMESH SHRAWAN ZADE	AA
93.	PRATIK TULSHIRAM BHUJADE	AA
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111	TUSHAR BHAUJI BAGADE	14
112	VIKAS NAMDEO SANAP	23
113	YASH NARESH SONBARSE	13
114	YASH PRAVIN KHARABE	18
115	YOG RAMESH PATLE	AA



**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

**Science College, Congress Nagar, Nagpur**  
**Academic Session 2022-2023**  
**BCA II Semester-III**  
**DIGITAL ELECTRONICS—II Paper—V**  
**UNIT TEST on Unit I & Unit II**

Time: 45 min

[Maximum Marks: 30]

**1. Solve any three questions:**

(a) What is Adder ? Explain the construction and working of full Adder circuit using Logic gates. 5

(b) Draw logic diagram for 4:1 multiplexer using gates and explain its truth table.

5

(c) What is parallel Adder ? Explain the construction and working of 4-bit binary Adder circuit.

5

(d) What is decoder ? Explain the construction and working of 2:4 decoder with logic gates.

5

**2. Solve any three questions:**

(a) Explain the construction and working of 4-bit up-counter with its timing diagram.

5

(b) What is Flip-Flop ? Explain the construction and working of Clocked RS-FF using NAND gates. 5

(c) What is counter ? Explain the construction and working of 3-bit down counter.

5

(d) What is modulus of counter ? Explain decode counter in brief.

5



**Signature of the Teacher**



**Head**  
**Department of Computer Science**



Professor & 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.**

**Department of Computer Science  
BCA II Semester-III (2022-23)  
DIGITAL ELECTRONICS—I Paper—VI**

**Result of Unit Test held on 12/04/2020 on Unit III & Unit IV  
Name of the teacher: Amruta J. Thakur**

Sr	Name of Students	Marks Out of 30
1.	AACHAL RAJNAND ARVERKAR	AA
2.	AISHWARYA NAMDEV LATKAR	AA
3.	AKANKSHA AJAYKUMAR SHENDE	24
4.	ANSHU GUNWANT YEKUDE	11
5.	ANUJA VILAS ZADE	AA
6.	ARCHANA TEJRAM SHARNAGATE	AA
7.	CHETANA SUNIL HEDAU	25
8.	HARSHALI ASHOK TAKALKEDE	13
9.	ISHWESHWARI RAJENDRA THAKRE	29
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13.	KHUSHI ASHOK GHATE	18
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16.	MAHIMA RAJENDRA BHASMOTE	14
17.	MAI RAMDAS BANSOD	21
18.	NAMRATA PRAMOD THAWARE	AA
19.	NANDINI PRAVIN SURYAWANSHI	AA
20.	NANDINI VIJAY KHANDARE	25
21.	NAYANI SUNIL BORKAR	13
22.	NEHA VIJAY VAIDYA	29
23.	NIDHI KOMAL CHANDEL	25
24.	NIKITA SATISH WARATKAR	10
25.	PRACHI DNYANESHWAR BARDE	13
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66.	DARSHAN SUDESH KAMBLE	10
67.	DEVASHISH SANTOSH TEMBHARE	13
68.	EKNATH VIJAY KAPSE	18
69.	GAURAV LAXMICHAND RAHANGDALE	19
70.	HARSH ASHISH KSHIRSAGAR	14
71.	HARSH HARISH GAIKWAD	23
72.	HARSHAL RAJU DAF	13
73.	HIMANSHU YASHWANT GAIDHANE	18
74.	KALASH SUKRAM GONDHULE	15
75.	KARTAVYA PRAKASH BADGE	19
76.	KARTIK SUDHAKAR BAMBAL	14
77.	KOMAL KAILASH PATIYE	23
78.	KRUNAL AJAY KUHITH	13
79.	MANAS SHAIENDRA KOKATE	18
80.	MOIN ABDUL WAHID KHAN	15
81.	MUGHEES UR RAHMAN SHAFIQR RAHMAN ANSA	19
82.	MUSFIQUE MEBOOB ALI	14
83.	NILESH HIRJI SHAHARE	23
84.	NITESH NEHRULAL PATRE	13
85.	OM PANKAJ THORAT	18
86.	PAWANKUMAR RAMKISHOR GOKHE	15
87.	PIYUSH CHANDRAMANI KHANDEKAR	AA
88.	PRAJWAL ASHOKRAO CHAUDHARI	AA
89.	PRANAY VAISRAJ GEDAM	18
90.	PRANJAL RAJESH AMBULKAR	15
91.	PRASHANT KISANAJI HIRUDKAR	AA
92.	PRATHMESH SHRAWAN ZADE	AA
93.	PRATIK TULSHIRAM BHUJADE	AA
94.	PUJAN SANJAY SHAHARE	25
95.	PUSHPAK ANIL TAMBULKAR	10
96.	REHAN SHAHEJAD FARUKI	13
97.	RUPESH RAJENDRA GHUMRE	18
98.	SAGAR SUNIL KALBANDHE	19
99.	SAHIL GANESH BHEDE	14
100.	SAHIL RAVINDRA CHOUDHARY	23
101.	SANKET KISHOR TIKHADE	13

102.	SARANG NARENDRA BURDE	18
103.	SARVESH RAMESH SAHARE	15
104.	SAURABH GANESH GAIKWAD	19
105.	SAYYAM SHYAMKUMAR CHICKHEDE	14
106.	SHARDUL SUDHIR GARADE	23
107.	SHIVAM RAMESH NACHANKAR	13
108.	SIDDHESH SUBHASHRAO GUHE	18
109.	TANMAY PREMGOPAL MALGHATE	15
110.	TEJAS DNYANESHWAR WANKHEDE	19
111.	TUSHAR BHAUJI BAGADE	14
112.	VIKAS NAMDEO SANAP	23
113.	YASH NARESH SONBARSE	13
114.	YASH PRAVIN KHARABE	AA
115.	YOG RAMESH PATLE	AA



**Signature of the Teacher**



**Head  
Department of Computer Science**



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

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

**Department of Computer Science  
BCA II Semester-III (2022-23)  
DIGITAL ELECTRONICS—I Paper—VI**

Time : 45 min

[Maximum Marks : 30]

**1. Solve any three questions:**

- (a) Explain NAND gate and NOR gate using logic symbol and truth table.
- (b) Explain the construction and working of Ex-OR gate using basic gate. Give its logical symbol also.
- (c) Construct the following gate using NOR gate exclusively : (i) AND (ii) OR (iii) Ex-NOR
- (d) What is positive and negative logic ? Explain AND gate and OR gate and give their symbol and logical expression.

**2. Solve any three questions:**

- (a) State and prove : (i) Associative law (ii) Distributive law.
- (b) What is K-map ? Simplify the following equation using K-map :  $f(A, B, C) = \sum m(1, 4, 5, 6)$
- (c) State and prove the De-Morgan's theorem for three variables.
- (d) Simplify the following expression using K-map and draw the logical circuit for the simplified expression :  $f(A, B, C, D) = ABCD + A BCD + ABCD + ABCD + A BCD + A BC D$



**Signature of the Teacher**



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Department of Computer Science**



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