

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

BCA II Semester-III(2023-24)

Visual Basic Programming Paper-I

Result of Unit Test held on 23/9/2023 on Unit I and Unit II

Name of the teacher: Shrutika V. Lokhande


Sr. No.	Name	Marks out of 30 in Unit I-II
1	AACHAL RAJNAND ARVERKAR	18
2	AISHWARYA NAMDEV LATKAR	28
3	AKANKSHA AJAYKUMAR SHENDE	17
4	ANSHU GUNWANT YEKUDE	18
5	ANUJA VILAS ZADE	AA
6	ARCHANA TEJRAM SHARNAGATE	00
7	CHETANA SUNIL HEDAU	5
8	HARSHALI ASHOK TAKALKHEDE	18
9	ISHWESHWARI RAJENDRA THAKRE	16
10	KAJAL ASHOK UMARE	AA
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114	YASH PRAVIN KHARABE	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

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

[Time: 45 min.]

[Maximum Marks: 30]

UNIT-I

QUE. 1. SOLVE ANY THREE QUESTIONS:

1. Explain i) Project Explorer Window ii) Properties Window. 5
2. Explain the different data types used in VB. 5
3. Explain For....Next and Do....While loops in VB. 5
4. Write notes on the following controls:
 i)Command Button
 ii)Option Button
 iii)Checkbox 5

UNIT-II

QUE. 2. SOLVE ANY THREE QUESTIONS:

1. What is Array? Explain control array in VB. 5
2. What is Function? Explain user interaction function in VB. 5
3. What is procedure? Write a procedure to print Fibonacci series upto n terms. 5
4. Explain the different conversion functions used in visual basic 5



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SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**

BCA II Semester-III(2023-24)

Visual Basic Programming Paper-I

Result of Unit Test held on 29/11/2023 on Unit III and Unit IV

Name of the teacher: Shrutika V. Lokhande

Sr. No.	Name	Marks out of 30 in Unit III-IV
1	AACHAL RAJNAND ARVERKAR	19
2	AISHWARYA NAMDEV LATKAR	29
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Signature of the Teacher



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Academic Session 2023-2024
Bachelor of Computer Application (B.C.A) (Semester-III)
Visual Basic Programming Paper-I
UNIT TEST on Unit III - IV**

[Time: 45 min.]

[Maximum Marks: 30]

UNIT-III

QUE. 1. SOLVE ANY THREE QUESTIONS:

1. What is menu editor? Write steps to create menu using menu editor. 5
- 2.Explain VDM in detail. 5
- 3.Explain data control events and properties with suitable example. 5
- 4.What is DAO? Write steps to access database using DAO. 5

UNIT-IV

QUE. 2. SOLVE ANY THREE QUESTIONS:

1. Explain DataGridView control and MsflexGrid control with suitable example. 5
- 2.What is data report? Discuss part of data report and control in detail. 5
- 3.What do you mean by data environment? Explain its components. 5
- 4.How navigation buttons are created in vb? Explain. 5



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BCAII Semester-III (2023-24)
SUBJECT Paper-II
Result of Unit Test held on 14/09/2023 on
Unit I and UNIT II**

Name of the teacher: V.C.Pande

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1	AACHALRAJNANDARVERKAR	12
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Signature of the Teacher

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**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2023-2024
Bachelor of Computer Application (B.C.A) (Semester-III)
DATABASE MANAGEMENT SYSTEMS**

Paper-II
UNIT TEST on Unit I - II

[Time: 45 min.]

[Maximum Marks: 30]

UNIT-I

QUE. 1. SOLVE ANY THREE

- | | |
|---|---|
| (a) Discuss the components of Database Management System.? | 5 |
| (b) Explain network data model with example. ? | 5 |
| (c) State main characteristics of database? | 5 |
| (d) Explain three level architecture of Database Management System. ? | 5 |

UNIT-II

QUE. 2. SOLVE ANY THREE

- | | |
|--|---|
| (a) What is queue in data structure ? | 5 |
| (b) What is pointer ? List its types.? | 5 |
| (c) What is BCNF ? | 5 |
| (d) Define model as well as data model.? | 5 |



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63	ANURAGRAJESHWASNIK	16
64	AYUSHBABANPAWAR	30
65	AYUSHRAJESH DUBEY	21
66	DARSHANSUDESHKAMBLE	24
67	DEVASHISHSANTOSHTSEMBHARE	9
68	EKNATH VIJAYKAPSE	9
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74	KALASHSUKRAMGONDHULE	18
75	KARTAVYAPRAKASHBADGE	14
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78	KRUNALAJAYKUHITH	22
79	MANASSHAILENDRAKOKATE	24
80	MOINABDULWAHIDKHAN	18
81	MUGHEESURRAHMANSHAFIQRRAHMANANSA	24
82	MUSHFIQUEMEBOOBALI	9
83	NILESHHIRJISHAHARE	13
84	NITESHNEHRULAL PATRE	30
85	OMPANKAJTHORAT	22

86	PAWANKUMARRAMKISHORGOKHE	14
87	PIYUSHCHANDRAMANIKHANDEKAR	14
88	PRAJWALASHOKRAOCHAUDHARI	15
89	PRANAYVAISRAJGEDAM	16
90	PRANJALRAJESHAMBULKAR	27
91	PRASHANTKISANAJHIRUDKAR	22
92	PRATHMESHSHRAWANZADE	8
93	PRATIKTULSHIRAMBHUJADE	18
94	PUJANSANJAYSHAHARE	20
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96	REHANSHAHEJADFARUKI	27
97	RUPESHRAJENDRAGHUMRE	19
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101	SANKETKISHORTIKHADE	29
102	SARANGNARENDRABURDE	17
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104	SAURABHGANESHGAIKWAD	8
105	SAYYAMSHYAMKUMARCHICKHEDE	16
106	SHARDULSUDHIRGARADE	21
107	SHIVAMRAMESHNACHANKAR	8
108	SIDDHESH SUBHASHRAOGUHE	27
109	TANMAYPREMGOPALMALGHATE	14
110	TEJASDNYANESHWARWANKHEDE	17
111	TUSHARBHAUJIBAGADE	15
112	VIKASNAMDEOSANAP	16
113	YASHNARESHSONBARSE	23
114	YASHPRAVINKHARABE	15

Signature of the Teacher

Head of 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 2023-2024
Bachelor of Computer Application (B.C.A) (Semester-III)
DATABASE MANAGEMENT SYSTEMS**

**Paper-II
UNIT TEST on Unit III- IV**

[Time: 45 min.]

[Maximum Marks: 30]

UNIT-III

QUE. 1. SOLVE ANY THREE

- (a) Discuss structure of relational databases. ? 5
- (b) Consider the following schema of a relational database :
employee (emp__no., name, address)
project (P__no., P__name)
work-on (emp__no., P__no.)
Write a query to list name of employees working on project named "XYZ".? 5
- (c) Write a short note on tuple relational calculus. ? 5
- (d) Explain Cartesian product operation with suitable example? 5

UNIT-IV

QUE. 2. SOLVE ANY THREE

- (A) What is the third normal form (3NF) ? Explain with example. ? 5
- (B) Explain DAD symbols with example. ? 5
- (C) What is physical data model ? Explain any two models under it. ? 5
- (D) Explain SELECT command in SQL with its syntax and example.? 5



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

Bachelor of Computer Application

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

Data Structure Paper-III

Result of Unit Test held on 17/10/2023 on Unit I & II

Name of the teacher: Anjali Milind Pakhidde

Sr. no	Name of Students	Marks out of 30
1	AACHAL RAJNAND ARVERKAR	22
2	AAYUSH RAJENDRA TAREKAR	14
3	ABHISHEK SANJAY THOKAL	30
4	ADITYA KAILAS MANE	27
5	AISHWARYA NAMDEV LATKAR	13
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121	SHLOK YADAV	26

Signature of the Teacher

**Head
Department of Computer Science**



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

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

Data Structure Paper-III

UNIT I

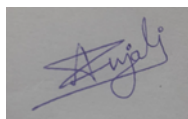
Que 1. Solve any three

1. What is Linked List ? What are the types of linked list ? 5
2. How polynomial expression can be represented using linked list . 5
3. Write an algorithm to insert a node at the beginning of linked list. 5
4. Write an algorithm to search an element in a linked list. 5

UNIT II

Que 2. Solve any three

1. Write an algorithm to convert Infix expression to Postfix expression. 5
2. Explain Quicksort method with suitable example. 5
3. Evaluate the Postfix Notation. (Using Application of STACK) 5
5, 12, 4, -, *, 8, 2, |, +.
4. Write a recursive algorithm for Tower of Hanoi Problem. 5



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**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.
Bachelor of Computer Application**

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

Data Structure Paper-III

Result of Unit Test held on 13/11/2023 on Unit III & IV

Name of the teacher: Anjali Milind Pakhidde

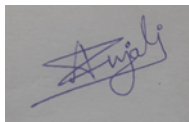
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Signature of the Teacher



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Congress Nagar, Nagpur

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2023-2024
B.C.A. II Semester-III (2023-24)**

Data Structure Paper-I

UNIT III

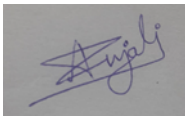
Que 1. Solve any three

1. What is a Queue ? Explain array representation of queue in memory. 5
2. Explain selection sort method with suitable example. 5
3. What is Hashing ? Explain collision resolution technique. 5
4. Write an algorithm to insert element in circular queue. 5

UNIT IV

Que 2. Solve any three

1. What is Tree ? Explain the concept of Binary Search Tree. 5
2. Explain : 5
Graphs.
Multigraphs. 5
3. Explain BSF traversing on graphs. 5
4. Write an algorithm for preorder traversal of Binary Tree. 5



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**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.
BCA-II Semester-II (2023-24)
Operation Research-I Paper-IV
Result of Unit Test held on 07/9/2023+ on
Unit I and Unit II**

Name of The Teacher: -A.U. Bansinge

Sr. No.	Name	Marks out of 30
1	AACHAL RAJNAND ARVERKAR	18
2	AAYUSH RAJENDRA TAREKAR	12
3	ABHISHEK SANJAY THOKAL	11
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121	Anurag Mishra	21



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
Academic Session 2023-2024
Bachelor of Computer Application (B.C.A) (Semester-II)
Operation Research-I, Paper-IV
UNIT TEST on Unit I - II**

[Time: 45 min.]

[Maximum Marks: 30]

UNIT-I

QUE. 1. SOLVE ANY THREE

- | | |
|---|---|
| 1. Explain different phases of operations research. | 5 |
| 2. Give the methodology of operation research. | 5 |
| 3. Define Linear Programming problem. | 5 |
| 4. Define General Linear Programming Problem. | 5 |

UNIT-II

QUE. 1. SOLVE ANY THREE

- | | |
|--|---|
| 1. Explain Simplex algorithm. | 5 |
| 2. Explain Vogel's approximation method for transportation problem. | 5 |
| 3. What do you mean by unbalanced transportation problem? How will you balance it? | 5 |
| 4. What are limitations of graphical method? | 5 |



Signature of the Teacher



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Congress Nagar, Nagpur

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

BCA II Semester-II (2023-24)

Operation Research-I Paper-IV

Result of Unit Test held on 21/10/2023 on

Unit III and Unit IV

Name of The Teacher: -A.U. Bansinge

Sr. No.	Name	Marks out of 30
1	AACHAL RAJNAND ARVERKAR	18
2	AAYUSH RAJENDRA TAREKAR	12
3	ABHISHEK SANJAY THOKAL	11
4	ADITYA KAILAS MANE	18
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Academic Session 2023-2024
Bachelor of Computer Application (B.C.A) (Semester-II)
Operation Research-I, Paper-IV
UNIT TEST on Unit III - IV**

[Time: 45 min.]

[Maximum Marks: 30]

UNIT-III

QUE. 1. SOLVE ANY THREE

- | | |
|---|---|
| 1. Explain North-West corner method for Transportation problem. | 5 |
| 2. Give the methodology of operation research. | 5 |
| 3. Define Linear Programming problem. | 5 |
| 4. Define General Linear Programming Problem. | 5 |

UNIT-IV

QUE. 1. SOLVE ANY THREE

- | | |
|--|---|
| 1. Explain Simplex algorithm. | 5 |
| 2. Explain Vogel's approximation method for transportation problem. | 5 |
| 3. What do you mean by unbalanced transportation problem? How will you balance it? | 5 |
| 4. What are limitations of graphical method? | 5 |



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Academic Session 2023-2024
Bachelor of Computer Application (B.C.A) (Semester-III)
Sub-Webtechnology-I
Result of Unit Test Held on 20-8-23
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	AB
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Academic Session 2023-2024
Bachelor of Computer Application (B.C.A) (Semester-III)
Paper- V
WEB-TECHNOLOGY-I
UNIT TEST on Unit I - II**

[Time: 45 min.]

[Maximum Marks: 30

Q.1 UNIT-I

Solve Any Three

- A. What is internet ? Explain the working of internet [05]
B. What is search engine ? What are its categories ? [05]
C Explain web browsers and web servers. [05]
D. Define HTTP. What is HTTP request and HTTP response ? [05]

UNIT-II

Solve Any Three

- A. Explain the working of frames and framesets [05]
B. What are the different manipulations that can be done on text and paragraph ? [05]
C. Write short notes on :—
(i) Paired and Unpaired tags.
(ii) Superscripts and subscripts [05]
D. Explain the uses of directories and menu lists [05]



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Bachelor of Computer Application (B.C.A) (Semester-III)
Sub-Webtechnology-I
Result of Unit Test Held on 22-9-23
UNIT TEST on Unit III ,UNIT-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	AB
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M. K. Yadav

Signature of the Teacher

[Signature]

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Paper- V
WEB-TECHNOLOGY-I
UNIT TEST on Unit III - IV

[Time: 45 min.]

[Maximum Marks: 30

Q.1 UNIT-III

Solve Any Three

- A. Explain parts of e-mail text. [05]
B. What is e-mail ? How can you create your own e-mail account ? Write the steps [05]
C. What is DHTML ? What are the features of DHTML. [05]
D. Write short notes on moving boxes and changeable boxes? [05]

UNIT-IV

Solve Any Three

- A. What is CSS ? Explain steps to create style sheets [05]
B. Explain various font attributes used in CSS. [05]
C. How can we apply classes to other document parts ? Explain with example [05]
D. Explain any five CSS tags [05]



Signature of the Teacher



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Department of Computer Science



Professor & Head
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S.S.E.S. Am's Science College,
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**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**

**Department of Computer Science
BCA II Semester-III (2023-24)
DIGITAL ELECTRONICS—I Paper—VI**

Result of Unit Test held on 06/09/2023 on Unit I & Unit II

Name of the teacher: Amruta J. Thakur

S.N.	Name of Students	Marks out of 30
1.	AACHAL RAJNAND ARVERKAR	17
2.	AISHWARYA NAMDEV LATKAR	12
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**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**

**Department of Computer Science
BCA II Semester-III (2023-24)
DIGITAL ELECTRONICS—I Paper—VI
Name of the teacher: Amruta J. Thakur**

Time : 45 min

[Maximum Marks : 30]

1. Solve any three questions:

- (a) What is base or radix of number system ? Explain hexadecimal number system with examples.
- (b) Do as directed :
- (i) $(1FA2)_{16} = (?)_2$
- (ii) $(341)_8 = (?)_{16}$
- (c) What is Excess-3 Code ? What are its advantages ? Perform the following addition using Excess-3 Code : $41 + 38$
- (d) What is Parity ? What are its types ? Explain how it can be used for error checking.

2. Solve any three questions:

- (a) Explain how negative numbers are represented in binary with suitable example.
- (b) Perform the following subtraction using 1's complement method : (i) $(10101)_2 - (10010)_2$
(ii) $(10110)_2 - (1111)_2$.
- (c) What do you mean by underflow and overflow ? Explain it with example.
- (d) What is 2's complement of a number ? Perform the following subtraction using 2's complement method : $(11000)_2 - (11100)_2$



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**Department of Computer Science
BCA II Semester-III (2023-24)
DIGITAL ELECTRONICS—I Paper—VI
Result of Unit Test held on 2/11/2023 on Unit III & Unit IV
Name of the teacher: Amruta J. Thakur**

S.N.	Name of Students	Marks out of 30
1.	AACHAL RAJNAND ARVERKAR	17
2.	AISHWARYA NAMDEV LATKAR	12
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**Department of Computer Science
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DIGITAL ELECTRONICS—I Paper—VI
UNIT TEST on Unit III & Unit IV**

Time: 45 min

[Maximum Marks: 30]

1. Solve any three questions:

- (a) Explain AND gate ,OR and NOT 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) NAND (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 : $f(A, B, C, D) = ABCD + A BCD + ABCD + ABCD + ABCD + ABCD$.



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