SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S

SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.

Bachelor of Computer Application

B.C.A. II Semester-IV (2019-20)

Software Engineering – I Paper-I

Result of Unit Test held on 17/03/2019 on Unit I & II

Name of the teacher: Puja Dadhe

Sr. No	Name of the Students	Marks out of 30
1	ABHISHEK D. BHANARKAR	25
2	BALKISHAN N. PALIWAL	15

Signature of the Teacher

Head
Department of Computer Science

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2019-2020
B.C.A. II Semester-IV (2019-20)
Software Engineering Paper-I
UNIT I

Que 1. Solve any three

1. Explain Capability Maturity Model Integration (CMMI) in brief.   5

2. What is Software Engineering? Explain evolving role of Software.   5

3. Explain different changing nature of software.   5

4. Differentiate between personal and team process models   5

UNIT II

Que 2. Solve any three

1. Explain waterfall model with its diagram.   5

2. Explain any one evolutionary process model in detail.   5

3. Explain functional and non-functional requirements with example.   5

4. Explain unified process in detail.   5

Signature of the Teacher   **Head**
                                        Department of Computer Science

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR
Bachelor of Computer Application
B.C.A. II Semester-IV (2019-20)
Software Engineering Paper-I
Result of Unit Test held on 15/09/2020 on Unit III & IV
Name of the teacher: Puja Dadhe

Sr. No	Name of the Students	Marks out of 30
1	ABHISHEK D. BHANARKAR	15
2	BALKISHAN N. PALIWAL	20

Signature of the Teacher   **Head**
                                           Department of Computer Science

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2019-2020
B.C.A. II Semester-IV (2019-20)
Software Engineering Paper-I
UNIT III

Que 1. Solve any three

1. Explain requirement validations for engineering process.   5

2. What is Feasibility Study ? Explain need of Feasibility study   5

3. Explain data models in detail.

4. Explain context model in detail.   5

UNIT IV

Que 2. Solve any three

1. Explain object oriented design concept in detail. 5   5

2. Explain principles of designing output.   5

3. Explain Data Design elements and architectural design elements in detail.   5

4. What are different elements considered in designing software ?   5

Signature of the Teacher   **Head**
                                            Department of Computer Science

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE,CONGRESS NAGAR,NAGPUR.
BCA II Semester-IV (2019-20)
SUBJECT Paper-II
Result of UnitTest held on 21 /03/2020 on
Unit I and UNIT II
Name of the teacher:P.M.Dadhe

Sr. No.	Name	Marks outof30
1.	ABHISHEK .D.BHANARKAR	11
2.	BALKISHAN .N. PALIWAL	09

Signature of the teacher

Head of the Department

SEAL

UNIT TEST

Time: 45 min.]   **[MaximumMarks: 30**

UNIT-I
QUE. 1. SOLVE ANY THREE
.a)) Explain Codd's rule in detail.   5
(b) Explain UPDATE and DELETE command with examples.   5
(c) Consider the following table : Client-master (Client-no, name, city) Salesman_master
(Salesman_no, name, city) Answer the following query using the SET operator : (1) Retrieve the
names of all the clients and salesmen in the city "Nagpur" from the above table   .5
(d) Explain Aggregate functions with example.   5

UNIT- II
QUE. 2. SOLVE ANY THREE
 .a)What is Operator ? Explain PL/SQL operators in detail.   5
(b) Explain PL/SQL data types with example.   5
(c) Write a PL/SQL code to find the largest of three numbers.   5
 (d) What is Operator ? Explain PL/SQL operators in detail.) What is a View ? Create a view that
retrieves the information about employees whose salaries are greater than 5000.   5

Signature of the teacher   **Head of the Department**

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S

SCIENCE COLLEGE,CONGRESS NAGAR,NAGPUR.
BCA II Semester-IV (2019+-2020)
SUBJECT Paper-II
Result of UnitTest held on 21/04/2020 on
Unit I and UNIT II
Name of the teacher: P.M.Dadhe

Sr. No.	Name	Marks outof30
1.	ABHISHEK .D.BHANARKAR	15
2.	BALKISHAN .N. PALIWAL	aa

Signature of the teacher　　　　　　　　　　　　**Head of the Department**

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2019-2020
Bachelor of computer Application (BCA) (Semester-IV)
Paper-II
(SUBJECT PL SQL:)

UNIT TEST

Time: 45 min.]   **[MaximumMarks: 30**

UNIT-III
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- IV
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

Signature of the teacher   **Head of the Department**

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.
BCAII Semester-IV (2019-20)
Theory of Computation
Paper-III
Result of Unit Test held on 24/02/2020 on
Unit I and Unit II

Name of the teacher: Dr. Varsha C. Pande

Sr. No.	Name	Marks out of 30
1	Abhishek D. Bhanarkar	12
2	Balkishan N. Paliwal	23
3		
4		

Signature of the Teacher

Head
Department of Computer Science

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

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2019-2020
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   Design a finite automata accepting string ''110101'' over the alphabets {0, 1}.   5
2   Let R be a regular expression. Prove that there exists an NFA with £-transition that
        accepts L(r).   5
3   Let L be accepted by a non-deterministic finite automaton. Prove that there exists a
        deterministic finiteautomation that accepts L.   5
4   Write a regular expression for the language having set of all strings with equal
        number of 0s and 1s.   5

UNIT- II
QUE. 2. SOLVE ANY THREE

1.   Prove that regular sets are closed under intersection.   5
2   Explain principle of pumping lemma for regular set.   5
3   Justify the set of all strings that do not have three consecutive 0's is regular set or not.
        5
4   Prove that the class of regular set is closed under complementation.   5

Signature of the Teacher

Head
Department of Computer Science

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.
BCAII Semester-IV (2019-20)
Theory of Computation
Paper-III
Result of Unit Test held on 03/06/2020 on
Unit III and Unit IV
Name of the teacher: Dr. Varsha C. Pande

Sr. No.	Name	Marks out of 30
1	Abhishek D. Bhanarkar	24
2	Balkishan N. Paliwal	18
3		
4		
5		

Signature of the Teacher

Head
Department of Computer Science

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

UNIT TEST

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

UNIT-III
QUE. 1. SOLVE ANY THREE
1   Define Chomsky Normal Form (CNF) and convert following CFG into Chomsky
Normal Form :

$S \rightarrow AbA$

$A \rightarrow Aa/\in$.   5
2   Explain pumping lemma for CFL's.   5
3   Define Greibach Normal Form (GNF). Convert following grammar G into GNF

$S \rightarrow XA \mid BB, B \rightarrow b \mid SB, X \rightarrow b, A \rightarrow a$.   5
4   Prove any context-free language is generated by a context-free grammar in Chomsky
Normal Form.   5

UNIT- IV
QUE. 2. SOLVE ANY THREE

1   Define PDA and give instantaneous description of PDA.   5
2   Design PDA for :

$L = \{0_n 1_n \mid n \geq 0\}$.   5
3   Prove that PDA and CFGs are equivalent.   5
4   Design the PDA for palindrome string of alphabets $\{0, 1\}$.   5

Signature of the Teacher

Head
Department of Computer Science

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.
BCA II Semester-IV(2019-20)
Operation Research-II Paper-IV
Result of Unit Test held on 25/3/2020on
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
4	ADITYA KAILAS MANE	18
5	AISHWARYA NAMDEV LATKAR	20
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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
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21	GAURAV LAXMICHAND RAHANGDALE	21
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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
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117	YASH NARESH SONBARSE	21
118	YASH PRAVIN KHARABE	23
119	YASHASHREE RAMESHRAO PADWE	24
120	Shlok Yadav	22
121	Anurag Mishra	21

Signature of the Teacher

Head
Department of Computer Science

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2019-2020
Bachelor of Compuiter 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

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.
BCA II Semester-IV(2019-20)
Operation Research-II Paper-IV
Result of Unit Test held on 22/4/2020on
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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13	ANURAG RAJESH WASNIK	28
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17	CHETNA SUNIL HEDAU	11
18	DARSHAN SUDESH KAMBLE	15
19	DEVASHISH SANTOSHKUMAR TEMBHARE	19
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27	ISHWESHWARI RAJENDRA THAKRE	11
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118	YASH PRAVIN KHARABE	23
119	YASHASHREE RAMESHRAO PADWE	24
120	Shlok Yadav	22
121	Anurag Mishra	21

Signature of the Teacher

Head
Department of Computer Science

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2019-2020
Bachelor of Compuiter 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

Head
Department of Computer Science

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

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2019-2020
Bachelor of Computer Application (B.C.A) (Semester-IV)
Sub-Webtechnology-II
Unit Test Held on 17-2-20
UNIT TEST on Unit I ,UNIT-II

Name of Teacher-Manisha Kongre

Sr. No.	Name	Marks out of 30
1	ABHISHEK D. BHANARKAR	20
2	BALKISHAN N. PALIWAL	21

Signature of the Teacher   **Head**
                                          Department of Computer Science

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

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

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Q.1 UNIT-I
  Solve Any Three

  A. Explain the life cycle of JSP in detail.   [05]
  B. Write a program to insert an image in JSP   [05]
  C. Explain the various loops available in Java Script with example.   [05]
  D. Explain in detail the expression tag in JSP with example   [05]

Q.2 UNIT-II
Solve Any Three
  A. Write a note on custom tag library in JSP.   [05]
  B. What is Scriptlet ? Explain scriptlet tag in detail..   [05]
  C. What are the Directives used in JSP?   [05]
  D. How does window object work in Javascript ? Explain.   [05]

Signature of the Teacher   **Head**
                                            Department of Computer Science

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2019-2020
Bachelor of Computer Application (B.C.A) (Semester-IV)
Sub-Webtechnology-II
Unit Test Held on 13-4-20
UNIT TEST on Unit III ,UNIT-IV

Name of Teacher-Manisha Kongre

Sr. No.	Name	Marks out of 30
1	ABHISHEK D. BHANARKAR	20
2	BALKISHAN N. PALIWAL	AB

Signature of the Teacher

Head
Department of Computer Science

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

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2019-2020
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 Explain the following looping with proper syntax and suitable example : (i) For ...... next loop
   (ii) Do ...... until.   [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. Write a program to sort 10 elements by using VB script   [05]

Q.2 UNIT-IV

Solve Any Three

   A. What is REST based Web Service ? Explain with an example.   **[**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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SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.

Department of Computer Science
BCA II Semester-III (2019-20)
DIGITAL ELECTRONICS—I Paper—VI

Result of Unit Test held on 1/02/2020 on Unit I & Unit II
Name of the teacher: Amruta J. Thakur

SN	Name of Students	Marks Out of 30 Unit 1 & 2
1.	ABHISHEK D. BHANARKAR	22
2.	BALKISHAN N. PALIWAL	23

Signature of the Teacher

Head
Department of Computer Science

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

Time: 45 min   [Maximum Marks: 30]

1. Solve any three questions:

(a) What is Half Adder ? Explain the working of Half 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

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SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.

Department of Computer Science
BCA II Semester-III (2019-20)
DIGITAL ELECTRONICS—I Paper—VI

Result of Unit Test held on 25/04/2020 on Unit III & Unit IV
Name of the teacher: Amruta J. Thakur

SN	Name of Students	Marks Out of 30 Unit 1 & 2
1.	ABHISHEK D. BHANARKAR	28
2.	BALKISHAN N. PALIWAL	27

Signature of the Teacher

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Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Academic Session 2019-2020
BCA II Semester-III
DIGITAL ELECTRONICS—II
UNIT TEST on Unit III & Unit IV

Time: 45 min   [Maximum Marks: 30]

1. Solve any three questions:
 (a) What is Addressing Mode ? Explain any two addressing modes of 8086 mp
with suitable examples.   5
(b) What is flag ? Explain flag register of 8086 mp in detail.   5
(c) Explain the function of following pins of 8086 microprocessor : (i) ALE (ii)
READY (iii) TEST.   5
(d) Explain the general purpose registers in 8086.   5

2. Solve any three questions:
(a) What are the different Arithmetic group instructions available in 8086 mp ?
Explain any two arithmetical group instructions with example.   5
 (b) Write an ALP using instructions of 8086 mp to find an Average of an array
containing five 8 bit numbers.   5
 (c) What are Assembler directives? Explain any two assembler directives in detail.
 (d) Write an ALP to find factorial of given 8-bit number.   5

Signature of the Teacher   **Head**
                                              Department of Computer Science