

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

Academic Session 2019-2020

Bachelor of Science (B. Sc.) (Semester-V)

COMPUTER SCIENCE Paper-I-VB Programming

UNIT TEST on Unit I and II

Time: 45 min.]

[Maximum Marks: 20

N.B. :- (1) Solve all the questions.

1. Explain Visual Basic Window components listed as below : (i) Project Explorer Window (ii) Properties Window (iii) Form Layout Window. 5

Or

2. Explain different datatypes in VB. 5

3. Explain the following controls in VB : (i) Image Control (ii) Picture Control (iii) Timer Control. 5

Or

4. Write short note on Looping Structure in VB. 5

5. What is an Array ? Explain different types of Arrays with example. 5

Or

6. Explain the different user interaction functions in VB. 5

7. Explain the different conversion functions in VB. 5

Or

8. What is procedure in VB ? Explain the two different methods for passing arguments to procedures 5

Signature of Teacher

Head of Department

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UNIT TEST on Unit III and IV

Time: 45 min.]

[Maximum Marks: 20

N.B. :- (1) Solve all the questions.

1. What is Popup Menu ? Explain the methods to create Popup Menu. 5
Or
2. Explain the steps to create database, using Visual Data Manager. 5
3. Write the steps to create menu using menu editor in VB. 5
Or
4. Write the steps to create search program in VB using DAO. 5
5. Write a note on Error Handling in VB. 5
Or
6. Explain the following advanced data controls :
(i) Data List
(ii) Data Combo
(iii) Data Grid. 5
7. What is ADO Control ? Explain the three ways to connect database using ADO control. 5
Or
8. Write short note on Data Environment and Data Report in VB. 5

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UNIT TEST MARKS

S.N.	CANDIDATE NAME (ECSM)	Marks out of 20 Test I	Marks out of 20 Test II	Signature
1	SHWETA G. DEOTARE	11	7	
2	DHANASHRI A. DUDHANE	A	18	
3	PRAGATI R. BARMAN	12	17	
4	TANVI K. KAWALE	13	17	
5	PRIYANKA A. BHAKARE	13	11	
6	REEZA I. SAYYED	15	10	
7	KHEMCHANDRA B. KAMBLE	A	11	
8	DIMPLE D. NEHARE	16	20	
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21	RITIKA MEHTA	13	11	
22	MEET V.BHANGE	A	17	
23	SWAPNIL G. KURADKAR	9	20	
24	KUNAL N. CHINCHULKAR	20	8	
S.N.	CANDIDATE NAME (PCSM)	P1	I1	
1	MOUSMI S. RAHANGDALE	13	10	
2	AYSHU A. PANDEY	7	9	
3	VIRAL B. THUMMAR	A	11	
4	YOGEN M. PAREKH	13	14	

5	SWATI A. PANDIT	15	18	
6	NEHA G. RAGHUWANSHI	13	13	
7	SHIRIN S. SHEIKH	10	20	
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29	MEGHA S. KERAM	7	9	
30	SHIVANI H. BAGHEL	9	15	
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41	SAIYYAD S S ALI	A	10	
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43	MAYURI R. SHAHARE	12	13	
44	AMIT G. JENGHATE	12	14	

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31	POOJA S. MISAL	17	18	
32	VRUSHALI V. KHANGAR	13	18	

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Head of Department

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COMPUTER SCIENCE Paper-II-DBMS

UNIT TEST on Unit I and II

Time: 45 min.]

[Maximum Marks: 20

N.B. :- (1) Solve all the questions.

1. Give classification of Data Models and explain in brief. 5
Or
2. Explain network data model with example and discuss advantages and disadvantages of this model. 5
3. Explain different problems associated with traditional file processing system. 5
Or
4. Draw three level architecture of DBMS and explain. 5
5. Explain super key, candidate key and primary key with suitable example. 5
Or
6. Explain Data Migration, Relationship giving suitable example. 5
7. Define attribute. Explain :
(i) Simple and composite attribute
(ii) Single valued and multivalued
(iii) Null attribute
(iv) Derived attribute. 5
Or
8. List symbols used in E-R diagram and explain their meaning. Give one example of E-R diagram. 5

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UNIT TEST on Unit III and IV

Time: 45 min.]

[Maximum Marks: 20

N.B. :- (1) Solve all the questions.

1. Explain following operations with suitable example :

(i) Union

(ii) Set difference.

Or

5

2. Consider following relation :

NSS_UNIT(stu_name, volunteer_no)

NCC_UNIT(stu_name, cadet_no)

Answer following query in relational algebra :

Find names of all students who are members of both NSS_UNIT and NCC_UNIT.

3. Explain left, right and full outer join operation with example.

5

Or

4. Consider following relation :

loan(branch_name, loan_no, loan_amt).

Construct queries in relational algebra for following :

(i) Find all tuples with branch name "XYZ".

(ii) Find all tuples with loan_amt more than 2 lac.

(iii) Find all tuples with branch name "PQR" and loan_amt more than 5 lac.

(iv) Find branch_name of loan_no "LOOA58".

(v) Find loan_no pertaining to "MNO" branch.

5

5. Explain 2NF. Discuss problems arising in three basic operations_insert, delete and update when relation is in 2NF.

5

Or

6. Identify the functional dependencies in the following table :—

5

J	K	L
x	1	2
x	1	3
y	1	4
y	1	3
z	2	5
P	4	7

7. What is Functional Dependency ? Explain full and partial functional dependency with example.

5

Or

8. Explain partial functional dependency and transitive functional dependency with example.

5

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S.N.	CANDIDATE NAME (PCSM)	P1T	P2	
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2	AYSHU A. PANDEY	10	A	
3	VIRAL B. THUMMAR	15	14	
4	YOGEN M. PAREKH	16	15	

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