

B.Sc. Part—II (Semester—III) Examination
COMPUTER APPLICATIONS (Vocational)
(Visual Basic and RDBMS)

Time : Three Hours]

[Maximum Marks : 80

Note :— (1) All questions are compulsory.

(2) Question No. 1 carries 8 marks and all other questions carries 12 marks.

1. (A) Fill in the blanks ($\frac{1}{2}$ mark each) :

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(i) VB has _____ environment.

(ii) _____ property specifies the initial text that appear in the text box.

(iii) Data integrity refer to _____ of the data in the database.

(iv) A set of attributes that uniquely identify a tuple of a relation is called _____.

(B) Choose the correct alternative :

(i) The property of command button determines whether to display a text option or a picture :

(a) Default

(b) Picture

(c) Style

(d) Caption

(ii) The location of the form on the desktop during execution is determined by the :

(a) Form designer window

(b) Project explorer window

(c) Context menu

(d) Form layout window

(iii) An entity type whose existence depends on another entity is called _____ entity.

(a) Strong

(b) Weak

(c) Dependent

(d) Non-dependent

(iv) Which of the following is not a SQL component ?

- (a) DML (b) DDL
(c) DSL (d) DCL

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(C) Answer in **one** sentence :

- (i) What is meant by Tool Bar ?
(ii) What do you mean by nesting of loop ?
(iii) What is Domain ?
(iv) What is View ?

4

2. (a) Explain the following :

- (i) Properties window
(ii) Project explorer.

6

(b) Explain the tools available on tool box in VB.

6

OR

3. (a) What are the various mouse events in Visual Basic Language ? Explain in brief.

6

(b) What is Visual Basic ? Explain in brief, the evolution of VB.

6

4. (a) Explain the application of list box with suitable program code.

6

(b) Explain the following :

- (i) Text box
(ii) Labels
(iii) Command buttons.

6

OR

5. (a) Explain with example the difference between :

- (i) Image box and picture box
(ii) Option button and check box.

6

(b) Explain the function and advantages of Data Control in VB.

6

6. (a) Explain the method of declaration and initialization of variables in VB. 6
(b) Explain the following with example :
(i) If... then... else
(ii) Nested if. 6

OR

7. (a) What is Operator ? Explain different types of operators in VB. 6
(b) Explain following loop structure with example :
(i) Do...While
(ii) For...Next. 6
8. (a) What is Database System ? What are the advantages and disadvantages of database system ? 6
(b) What is mapping constraints ? Explain different types of mapping constraints. 6

OR

9. (a) Explain architecture of database system. 6
(b) Define and explain second normal form with example. 6
10. (a) Explain CREATE TABLE command with example. 6
(b) Explain the following command :
(i) Commit
(ii) Rollback. 4
(c) Explain Group By Clause. 2

OR

11. (a) Explain the data types supported by SQL. 6
- (b) Explain the following commands :
- (i) SELECT
 - (ii) ALTER TABLE
 - (iii) DELETE. 6
12. (a) What is Character Function ? Explain following character functions with example :
- (i) Initcap ()
 - (ii) SUBSTR ()
 - (iii) RPAD (). 6
- (b) Explain in brief, data integrity constraints with example. 6

OR

13. (a) Explain the following functions with suitable example :
- (i) SOUNDIX ()
 - (ii) DECODE (). 6
- (b) Explain the following with suitable example :
- (i) Outer join
 - (ii) Union. 6