

Fifth Semester B. Sc. (Part – III) Examination

5S – COMPUTER SCIENCE

(RDBMS and Visual Basic)

P. Pages : 7

Time : Three Hours]

[Max. Marks : 80

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- Note :** (1) All questions are compulsory.
(2) Question No. **One** carries **Eight** marks and all other questions carry **Twelve** marks each.
(3) Assume suitable data wherever necessary.

1. (a) Fill in the blanks :—
- (i) A — is a collection of related information so that it is available to many users for different purposes
 - (ii) The real world object is called —.
 - (iii) In Visual Basic — is a collection of files that makes up application.
 - (iv) The — data type can accommodate all other types. 2

(b) Choose the correct alternative :—

(i) The values for an attribute or a column are drawn from a set of values known as a —.

- (a) Tuples
- (b) Attributes
- (c) Domain
- (d) None of these.

(ii) Which of the following is not included in DML (Data Manipulation Language) ?

- (a) INSERT
- (b) UPDATA
- (c) DELETE
- (d) CREATE

(iii) — act as a container for all the controls that make up the user interface.

- (a) Object
- (b) Control
- (c) Form
- (d) Form layout window.

OR

13. (a) What is the use of procedure ? Explain passing data by reference with example. 6

(b) Explain the following functions with example

(i) Fix ()

(ii) Str ()

(iii) IsNumeric ()

6



(b) Explain the need of menu bar and tool bar in developing VB applications. 6

10. (a) Explain the procedure for designing menus using menu editor tool. 6

(b) Explain the conditional and logical operators with example. 6

OR

11. (a) Explain the following with example :—

(i) GOTO statement.

(ii) if...then...Else statement. 6

(b) Write a VB program to display the n prime numbers using for — Next. 6

12. (a) Explain MsgBox () with syntax and example. 6

(b) Explain check box and option button in form. 6

(iv) All menu options supports the only one event called —.

(a) Mouse

(b) Click

(c) Change

(d) None of these. 2

(c) Answer in **one** sentence.

(i) What is candidate key ?

(ii) What is SQL ?

(iii) What is nesting of loops ?

(iv) What is application wizard ? 4

2. (a) Explain relational and network data model. 6

(b) Explain the following :—

(i) Data independence.

(ii) Data dictionary. 6

OR

3. (a) Explain the architecture of database system. 6

- (b) State and explain the advantages of database management system. 6

4. (a) Explain the following with example :—
 (i) Relation.
 (ii) Domain and attribute.
 (iii) Primary key. 6
- (b) What is normalization ? Explain 2 NF with example. 6

OR

5. (a) What is E-R diagram ? How E-R diagram can be reduced to tables ? Explain. 6
- (b) Explain the concept of functional dependency with example. 6
6. (a) Explain the following commands with example :—
 (i) CREATE
 (ii) ALTER 6

- (b) Explain the data types used in SQL. 6

OR

7. (a) Explain the following clauses with example :—
 (i) ORDER BY
 (ii) GROUP BY 6
- (b) Explain the following operators with example :—
 (i) IN
 (ii) LIKE
 (iii) BETWEEN.....AND 6

8. (a) What is Visual Basic ? Explain VB IDE components. 6
- (b) Explain command button control with its basic properties. 6

OR

9. (a) Explain the following :—
 (i) Image control
 (ii) Label control 6