**K17U 1955**

Reg. No. : ...................................

Name : ...................................

### III Semester B.Sc. Degree (CBCSS-Reg./Sup./Imp.)
### Examination, November 2017
### (2014 Admn. Onwards)
### COMPLEMENTARY COURSE IN COMPUTER SCIENCE
### 3C03CSC : Database Management System

Time : 3 Hours

Max. Marks : 32

### SECTION – A

1. **One** word answer. (6×0.5=3)

   a) _____ statement is used to change a value in a tuple without changing all values in the tuple.

   b) Set of permitted values of each attribute is called

   c) _____ statement is used to redimension an array.

   d) To set the command button for Esc, _____ property has to be changed.

   e) _____ operator is used to separate the name of the form or control from the property to be changed.

   f) The _____ operation selects tuples that satisfy a given predicate.

### SECTION – B

Write short notes on **any five** of the following questions. (5×2=10)

2. What is data abstraction ?

3. What is meant by functional dependency ?

4. What is foreign key ?

P.T.O.

5. Explain the use of DML.

6. List any four applications of database systems.

7. What is the use of OLE ?

8. List the steps in creating an application in VB.

9. How do you use events in VB ?

## SECTION – C

Answer **any three** of the following questions. (3×3=9)

10. Differentiate call by value and call by reference.

11. Explain control array.

12. Explain different types of database users.

13. Explain transactions.

14. Write short note on different constraints in E-R model.

## SECTION – D

Write an essay on **any two** of the following questions. (2×5=10)

15. Explain the two-tier and three-tier architectures of database systems.

16. Explain looping statements in VB with examples.

17. Explain the fundamental operations in relational algebra.

18. What is meant by normalization ? Explain different types of normalization with suitable examples.

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