



K18U 1886

Reg. No. : .....

Name : .....

**III Semester B.Sc. Degree (CBCSS – Reg./Sup./Imp.)**  
**Examination, November 2018**  
**(2014 Admn. Onwards)**  
**COMPLEMENTARY COURSE IN COMPUTER SCIENCE**  
**3C03CSC : Database Management Systems**

Time : 3 Hours

Max. Marks : 32

SECTION – A

1. **One word answer :** **(6×0.5=3)**
- a) The E-R model is expressed in terms of \_\_\_\_\_
  - b) A collection of conceptual tools for describing data, data relationships data semantics and constraints are known as \_\_\_\_\_
  - c) The set of allowable value for the attribute is known as \_\_\_\_\_
  - d) Data that provides information about the tables, views, constraints, stored procedures, etc. stored within the database is known as \_\_\_\_\_
  - e) \_\_\_\_\_ are the attributes of objects in VB.
  - f) Indexes should not be used on columns that contain a high number of \_\_\_\_\_ values.

SECTION – B

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

- 2. Distinguish between physical and logical data independence.
- 3. What is Functional Dependency ?
- 4. Draw a neat diagram of overall structure of Database system.
- 5. What is relational database ?

P.T.O.



6. What undesirable dependencies are avoided when a relation is in 3NF ?
7. Distinguish between option button and checkbox.
8. What is an array ? How will you declare an array in VB ?
9. What is meant by implicit and explicit declaration of variables in VB ?

SECTION – C

Write short notes on **any three** of the following questions.

(3×3=9)

10. Explain about instances and schema, data abstraction.
11. Differentiate integrity constraints and Domain constraints.
12. Explain the need of normalization in DBMS.
13. Differentiate while and do... while loop. Demonstrate with an example.
14. Write a VB code to accept the age of a person and check whether he/she is eligible to vote.

SECTION – D

Write short notes on **any two** of the following questions :

(2×5=10)

15. Explain E-R model in detail.
  16. Explain the roles of different database users.
  17. Explain all the decision making constructs available in VB.
  18. Explain Visual Basic IDE.
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