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	41424/D240							
Reg. No.								

IV Semester B.C.A.4 Degree Examination, May - 2019

DATABASE MANAGEMENT SYSTEM (Regular)

Theory

(RCU Fresh 2018-19)

Time: 3 Hours Max. Marks: 80

Instructions:

- (1) All Sections are compulsory.
- (2) Draw diagrams wherever necessary.

SECTION - A

1. Answer all 10 questions, 2 marks each.

10x2=20

- (a) What is Database Management System?
- (b) Define data model.
- (c) What is tuple and attribute?
- (d) What is an Entity type? Give an example.
- (e) Give an example of primary key.
- (f) What is domain integrity constraints?
- (g) What is Relational Algebra?
- (h) Define the term Normalization.
- (i) What is SQL? Write a syntax for UPDATE command.
- (j) What is PL/SQL? Write a basic structure of PL/SQL.

SECTION - B

Answer any 4 questions 5 marks each.

4x5=20

- 2. Describe the architecture of Three schema with a neat diagram.
- **3.** Discuss the following attributes :
 - (i) Compositive attributes
 - (ii) Multivalued attributes
 - (iii) Simple attributes

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- **4.** Describe the SELECT and PROJECT Operations of Relational Algebra.
- 5. What is Constraint? Explain any 4 constraints with an example.
- **6.** Write a PL/SQL program to find the greatest among three numbers.

SECTION - C

Answer any 4 questions, 10 marks each.

4x10=40

- 7. (a) Enlist the characteristics of database approach and explain all of them.
- 8+2

- (b) Write any 2 advantages of using DBMS.
- **8.** (a) Discuss the main activities of database end-users.

4+6

- (b) Explain with example the operations UNION, INTERSECTION and MINUS of Relational algebra.
- 9. (a) Explain the 2nd Normal form with suitable example.

5+5

- (b) Discuss the informal design guidelines of Relational Schemas.
- **10.** (a) Write a PL/SQL program using for loop to insert even numbers between 1 to 10 5+5 into temp table.
 - (b) Give the syntax and examples for ALTER and DROP command.
- 11. Write any 5 short notes on the following:

5x2=10

- (i) Data and data state
- (ii) Schema
- (iii) DBA
- (iv) E-R diagram with an example
- (v) Functional dependency
- (vi) PL/SQL stored procedure

