Roll No. ....

D–3712

B. Sc. (Part III) EXAMINATION, 2020

COMPUTER SCIENCE

Paper Second

(DBMS and RDBMS)

Time : Three Hours]　　　　　　　[*Maximum Marks : 50*

Note : Attempt any *two* parts from each question. All questions carry equal marks.

Unit—I

1. (a) What is DBMS ? Explain the structure of DBMS.

   (b) What is E-R diagram ? Draw E-R diagram for college management system.

   (c) What do you mean by keys ? Explain primary key, foreign key and candidate key in detail.

Unit—II

2. (a) What is RDBMS ? How is it different from DBMS ? Explain using example.

   (b) What is relational algebra ? Explain its basic operations.

   (c) What is Normalization ? Explain 1NF, 2NF and 3NF using example.

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Unit—III

3. (a) What is ORACLE ? Write about its latest version. Explain its various data type.

   (b) Write short notes on the following :

   (i) View

   (ii) SQL

   (iii) DROP command

   (iv) Joins

   (c) Explain DDL, DML and DCL commands using example.

Unit—IV

4. (a) What is Event ? Why VB is known as event driven programming language ?

   (b) Write a program in VB to create a simple calculator.

   (c) Write short notes on the following :

   (i) IF-then

   (ii) Select case

   (iii) Function

   (iv) Procedure

Unit—V

5. (a) What is DAO control ? Explain ADO in detail.

   (b) What is DATA report ? How is a report generated in VB ?

   (c) Write short notes on the following :

   (i) Data grid

   (ii) MDI

   (iii) Connection object

   (iv) Record object

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