

**E-3782****B. Sc. (Part III) EXAMINATION: 2021****COMPUTER SCIENCE**

Paper Second  
(DBMS and RDBMS)

Time : Three Hours ]

[ Maximum Marks : 50

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

**Unit-I**

- Q1.(a) Explain Role of Database Administrator?  
 (b) Explain different types of database users?  
 (c) Explain E-R Diagram?

**Unit-II**

- Q2.(a) Explain Project Operation Of Relational Algebra?  
 (b) Explain 1<sup>ST</sup> and 2<sup>ND</sup> normal forms in RDBMS?  
 (c) Explain the Relational Database?

**Unit-III**

- Q3.(a) Explain various data types in SQL?  
 (b) Explain Aggregate functions with example?  
 (c) Create table Cust with the given specification and constraints

Column Name	Format	Constraints
cust_id	varchar2(3)	primary key
lname	varchar2(15)	
fname	varchar2(15)	
area	varchar2(2)	
phone_no	number(8)	

Write statement for following query-

- i) Find the lnames of all customers that begin with 's' or 'j'.  
 ii) Count the total number of customers  
 iii) Change the telephone number of pramada to 466389.

**Unit-IV**

- Q4.(a) Why is VB called Event Driven Programming?  
 (b) Explain 5 String functions in VB with example?  
 (c) Explain different looping statements in VB with example?

**Unit-V**

- Q5.(a) Explain Error Trapping and Debugging in VB.?  
 (b) Differentiate between DAO, RDO, ADO?  
 (c) Explain Hierarchical flex grid control. ?