

Exam Code: 0005

Sub. Code: 0480

2021

B.A./B.Sc. (General) Fifth Semester

Information Technology

Paper: Database System and VB.NET

Time allowed: 3 Hours

Max. Marks: 65

NOTE: Attempt five questions in all, including Question No. IX (Unit-V) which is compulsory and selecting one question each from Unit I - IV.

x-x-x

UNIT – I

- I. a) Explain the main components of Visual Studio.Net IDE.
b) Design suitable GUI in VB.NET and write code to find and display largest of three numbers. (2x6½)
- II. a) Differentiate between Ladder If and Select... Case selection structures with the help of an example.
b) Define sub procedures. Write a Sub Procedure to swap values of two variables. (2x6½)

UNIT – II

- III. a) How are Arrays managed in VB.NET? Write code in VB.NET to find sum of Array elements.
b) Write short note on String functions available in VB.NET? (2x6½)
- IV. a) Describe the main classes of ADO.NET Object model which are used to connect to and query a Database.
b) What is DataGridView control? Describe various steps used for displaying data of dept Table having three fields- dept no, dept_nm, location using DataGridView control. (2x6½)

UNIT – III

- V. a) Explain the terminology used in Relational Database model.
b) Explain Codd's Rules and their relevance in RDBMS. (2x6½)
- VI. a) Describe the use of Rollup and Cube operations in Relational Databases? How are they different from each other?
b) Describe any two types of Joins for querying multiple Tables with the help of SQL queries. (2x6½)

P.T.O.

(2)

UNIT – IV

VII. Describe the following: -

- a) Inline Views
- b) Materialized Views
- c) Join Views

(13)

VIII. Describe the following: -

- a) Predefined Exceptions in PL/SQL
- b) Explicit Cursor Management in PL/SQL

(2x6½)

UNIT – V

IX. Write short answers of the following:-

- a) Describe the purpose of Me.Close() in VB.NET. (2)
- b) How can you disable the TextBox Control? (2)
- c) What is Foreign Key? (2)
- d) Describe the use of %TYPE and %ROWTYPE in PL/SQL. (2)
- e) Write command to create a Table from another Table. (2)
- f) How a Table can be removed from the database? (2)
- g) How do you change the Title of a Form? (1)

x-x-x