

Exam Code: 0005
Sub. Code: 0480

2012
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. Describe any three commonly used controls of Toolbox, their properties and Methods in VB.NET. Design Suitable GUI and write code to find and display whether a given year is leap year or not. (13)
- II. Differentiate between Sub procedures and Function Procedures. Also explain passing of arguments by value or by reference using suitable examples. (13)

UNIT - II

- III. How are Arrays declared, initialized and passed to procedures in VB.NET? Give examples. Also write code to find an element of an Array using Linear Search. What are the drawbacks of Linear Search? (13)
- IV. Explain the use of Connection, Command and Data Reader objects of ADO.NET Object model with an example that reads records of a 'Student' Table of College Database. (13)

UNIT - III

- V.
 - a) Explain the Relational Database model and its terminology.
 - b) Describe the use of LIKE operator in SQL Queries.
 - c) How does result of a query can be ordered? Give example. (5,4,4)
- VI.
 - a) What is a Join? Describe various types of Joins.
 - b) Describe the use of Set operators in SQL queries and give suitable examples. (7,6)

P.T.O.

(2)

UNIT - IV

- VII. a) How are views created and deleted?
b) Describe various types of privileges?
c) Explain the use of Grant and Revoke command using examples. (4,4,5)
- VIII. a) Explain main benefits of using PL/SQL
b) How are Cursors managed in PL/SQL? Explain briefly with examples. (5,8)

UNIT - V

- IX. Write short answers of the following:-
- a) How are variables declared in VB.NET? (2)
- b) Differentiate between Tabstop and TabIndex Properties. (2)
- c) How does 'Ladder If' work? (2)
- d) How can a column be dropped from a Table Structure? (2)
- e) Differentiate between char and varchar2 datatypes. (2)
- f) What is Unique Key constraint? How is it different from primary key? (2)
- g) Describe the use of SET SERVER.OUTPUT ON in PL/SQL. (1)