

(i) Printed Pages: 3

Roll No. ....

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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B.A./B.Sc. (General) 5<sup>th</sup> Semester  
(2123)

## INFORMATION TECHNOLOGY

Paper—A Data Base System & VB.NET

Time Allowed : Three Hours]

[Maximum Marks : 65

**Note** :—Attempt five questions in all, by selecting **one** question from each Unit. Entire Question No. **IX** is compulsory.

### UNIT—I

I. Explain the following in VB.NET :

(a) Solution Explorer

(b) Tool Box

(c) Modules.

3,5,5

II. (a) Define Sub-Procedures. Write code to swap two numbers using Sub-Procedures.

(b) What is Recursion ? Write code to calculate sum of N terms of Fibonacci Series.

7,6

### UNIT-II

III. (a) How are Arrays declared and accessed in VB.NET ? Give suitable examples.

(b) How are Array elements passed to Procedures in VB.NET ? Write a procedure which sorts elements of an Array.

7,6



IV. Explain the following objects of ADO.NET in VB.NET :

- (a) Connection and Command
- (b) Data Adapter and Data Set
- (c) Command and Data Reader.

3,5,5

### UNIT-III

V. Explain the following in SQL :

- (a) Data Types
- (b) Cube Operation
- (c) Rollup Operation.

3,5,5

VI. (a) How are Null Values handled in SQL ?

(b) What is Pattern Matching ? Explain with examples.

(c) Describe the use of Set operators in SQL queries with suitable examples.

3,5,5

### UNIT-IV

VII. (a) How is a Table created from another Table ? Give syntax and example.

(b) Explain the use of Privileges in managing Database Security.

(c) Explain any two Conditional Controls used in PL/SQL.

3,5,5

VIII. (a) Explain Operator Precedence in PL/SQL.

(b) Explain the use of Composite Datatypes in PL/SQL.

(c) Define a Cursor. Explain the use of Implicit Cursor with examples.

3,5,5

### (Compulsory Question)

IX. Write short answers :

- (1) How are Logical Operators used in VB.NET ?
- (2) Explain the use of items property of List Box.
- (3) How does 'for each' loop work ?
- (4) How can a column be added to a Table Structure ?
- (5) What is the importance of using Sequence ?
- (6) Explain the use of Unique Key constraint.
- (7) Describe the use of Commit statement. 6×2+1