

(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) 5th Semester

(2122)

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 Section. Entire Question Number IX is compulsory.

SECTION—A

- I. Explain the use of following in VB.NET and give suitable examples :
- (a) Various ways of Displaying Text
- (b) Displaying Images. 7,6
- II. (a) Explain various Operators used in VB.NET with the help of examples.
- (b) Write VB.NET code to find the Factorial of a number N using Recursion. 7,6

SECTION—B

- III. (a) How are Arrays used in VB.NET ? Write various ways to declare, initialize and access Arrays.
- (b) Explain the architecture of ADO.NET Model. 7,6
- IV. What is DataGridView Control ? How does it display data from an Access table ? Explain with the help of any suitable example. 13

SECTION—C

- V. (a) Describe Codd's Rules for an RDBMS.
- (b) Explain the use of Select query in the following :
- (i) Matching different patterns from a Table
- (ii) Ordering the result of a query. 7,6
- VI. (a) Explain the use of Self-Join with the help of an example.
- (b) What is a Nested Query ? Explain the operators that should be avoided in single row subqueries. 7,6

SECTION—D

- VII. (a) Write commands to insert, update and delete data from a Table.
- (b) What is a View ? How is a View created, replaced and deleted ? 7,6

- VIII. (a) Explain the use of any two Looping Control Constructs used in PL/SQL.
- (b) Explain Cursor Management with reference to PL/SQL. Give examples. 7,6

(Compulsory Question)

IX. Write short answers :

- (a) What is Solution Explorer ?
- (b) How is a Radio Button created in VB.NET ?
- (c) What is Select Case ?
- (d) Describe the use of IN operator in SQL Queries.
- (e) Differentiate between Grant and Revoke.
- (f) Why is SQL called Non-Procedural Language ?
- (g) Write various commands used to execute PL/SQL code.

6×2+1