

(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
(2124)

INFORMATION TECHNOLOGY

Paper : A Data Base System and VB.NET

Time Allowed : Three Hours]

[Maximum Marks : 65

Note :— Attempt **one** question each from Sections A to D. Question No. 9 is compulsory.

SECTION—A

1. (a) Describe the main windows of IDE of Visual Studio.NET. 7
- (b) Explain and differentiate among Procedures, Functions and Event procedures. 6
2. (a) Describe the different types of Operators available in VB.NET. 7
- (b) What is Recursion ? Write VB.NET program that generates Factorial of a number. 6

SECTION—B

3. (a) What do you mean by an Array ? How are they initialized and accessed in VB.NET ? 7

(b) Illustrate and explain architecture of ADO.NET Model. 6

4. (a) Write a VB program that sorts an array of integer values in the descending order using procedures. 7

(b) What is Data Grid View control ? How is it connected to a data source ? 6

SECTION—C

5. (a) How conditional retrieval of rows from a database table is done in SQL ? Explain. 7

(b) What Date related built-in-functions are generally used ? Discuss with appropriate syntax. 6

6. (a) Define SQL. Explain different types of operators used in SQL. 7

(b) What are Nested Queries ? How do you create them ? Discuss it with relevant example. 6

SECTION—D

7. (a) What are Sequences ? How do you create, use and drop a sequence ? Discuss relevant statements. 7

(b) Describe the various Data types used in PL/SQL. 6

8. (a) How to create a table with data from another table ? Also explain how to insert values into a table. 7
- (b) What is Exception ? Discuss the usages of pre-defined and user-defined exceptions in PL/SQL. 6

(Compulsory Question)

9. (a) Differentiate between procedures and functions. 3
- (b) List the namespaces required for connecting to data sources. 2
- (c) What is dim statement ? 2
- (d) Write a query to list all the employee names having more than 30 years of experience. 2
- (e) What are NULL values ? 2
- (f) What is cryptography ? 2