(i) **Printed Pages : 3**   Roll No. ....

(ii) **Questions   : 9**   **Sub. Code :** | 0 | 4 | 8 | 0 |

Exam. Code : | 0 | 0 | 0 | 5 |

B.A./B.Sc. (General) 5ᵗʰ Semester

(1129)

INFORMATION TECHNOLOGY

Paper–A

(Data Base System and VB.NET)

Time Allowed : Three Hours]   **[Maximum Marks : 65**

Note :—Candidate is required to attempt **FIVE** questions in all
including Question No. **1** (which is compulsory) and
attempt remaining **FOUR** questions by selecting **ONE**
question from each Unit.

(Compulsory Question)

1. (a) Write the purpose of IsNumeric() and IsError() functions.

2.5

(b) How can we query an access data source ?   2.5

(c) What is composite data type ?   2.5

(d) Name few schema objects that can be created using
PL/SQL ?   2.5

(e) What is collating information ? Explain.   3

UNIT—I

2. (a) Discuss the various arithmetic operators available in VB.net. 6.5

   (b) Explain for Loop and For Each...Next Loop with syntax and example. 6.5

3. (a) Write the syntax for Select case and give an example. 6.5

   (b) Write a recursive program in VB.Net to generate the Fibonacci series. 6.5

UNIT—II

4. (a) Explain operators used for string concatenation with explanation. 6.5

   (b) Design a menu driven calculator using console application program. 6.5

5. Create an application using which we can insert/delete/update information from a database using SQL statement. 13

UNIT—III

6. (a) What are the various approaches for data management ? How DBMS is better than the conventional file management ? Discuss the RDBMS for University Management System. 6.5

   (b) Discuss the conditional retrieval of rows in SQL. 6.5

7. (a) Discuss the various Group functions available in SQL with example. 6.5

(b) What is command summary ? Why is it required ?

6.5

UNIT—IV

8. (a) Write a PL/SQL code to find area of a triangle. 6.5

(b) Differentiate between Inline views and Materialized views.

6.5

9. (a) Discuss the ways and mechanisms that contribute to enhance database security and access privileges. 6.5

(b) Discuss pre-defined exception and user-defined exception with example. 6.5