

(i) Printed Pages: 3

Roll No.

(ii) Questions : 9

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B.A./B.Sc. (General) 5th Semester

1128

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

- I. (a) Write the various features and applications of VB.Net. 2½
- (b) What are the various approaches for data management ? 2½
- (c) Differentiate between Menu Bar and Tool Bar. 2½
- (d) Write a single statement that concatenates the words 'Good' and 'Morning' and assign it in a variable named greeting using PL/SQL. 2½
- (e) What is the purpose of % type data type in SQL ? Explain with example. 3

UNIT—I

- II. (a) Discuss the various conditional operators available in VB.Net. 6½
- (b) Discuss the various elements of user interface in VB forms. 6½
- III. (a) What do you understand by passing arguments ? What are the various ways of passing arguments ? Explain each with example. 6½
- (b) What is recursion and how is it useful in programming ? Write a recursive program to demonstrate recursion. 6½

UNIT—II

- IV. (a) What is a string ? How strings are different from array ? Discuss the various string manipulation functions. 6½
- (b) Write a program to implement insertion sort. 6½
- V. Create an application using which we can insert and delete information from a database using SQL statements. 13

UNIT—III

- VI. (a) What is DBMS and why is it required ? What are its various types ? Discuss the RDBMS for Railway Management. 6½
- (b) What is SQL ? What are the various functions in SQL with example ? 6½

VII. (a) Write and explain the various character functions available in SQL with example. 6½

(b) Differentiate between inner join and outer join with example. 6½

UNIT—IV

VIII. Write a PL/SQL code for exception handling. 13

IX. (a) What are cursors and why are they used ? Explain with example. 6½

(b) Differentiate between following :

- Procedural and non-procedural DML.
- Inline views and materialized views.

6½