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

(ii) Questions   : 9   Sub. Code : 3 6 1 8
                                Exam. Code : 0 4 6 1

M.Sc. Information Technology 3ʳᵈ Semester

(2123)

.NET FRAMEWORK AND C#

Paper : MS-32

Time Allowed : Three Hours]   [Maximum Marks : 80

Note :—Attempt *five* questions in all, including Q. 1 in Section-A, which is compulsory and taking one each from Section-B to Section-E. Marks are indicated on the right of various questions.

SECTION—A

(Compulsory Question)

1. (a) Define C# strings with program examples.

    (b) Distinguish between operator overloading and method overloading in C# with the help of examples.

    (c) How do connected and disconnected models of ADO.NET differ from each other ?

    (d) What is meant by TextBox control in windows applications ? Highlight the common properties used with TextBox control.   4,4,4,4

SECTION—B

2. (a) Explain the origins, benefits and architecture of .NET framework.

   (b) Define Common Language Runtime (CLR). List down and elaborate the features of CLR.   8,8

3. (a) Name and explain different types of operators in C# language with the help of examples. List the hierarchy in which these are evaluated.

   (b) Bring out the difference between value type and reference type in C# by taking appropriate examples.   8,8

SECTION—C

4. (a) What are partial classes and partial methods in C# ? Give an example program to explain each.

   (b) Explain the use of try, catch and finally blocks in C# to implement integral type exception handling with checked and unchecked statements.   8,8

5. What are files and I/O streams in C# ? Write a C# program to duplicate the contents of a sequential file.   16

SECTION—D

6. What are Single Document Interface and Multiple Document Interface in C# ? What are the steps involved in creating an MDI form ? Explain with an example.   16

7. (a) Explain different validation controls supported by ASP.NET with suitable examples.

   (b) How do you deploy ASP.NET application with Windows Installer ?   8,8

SECTION—E

8. Describe the Features and Architecture of ADO.NET and its Providers. Explain details about the Accessing Data bases using ADO.NET with an example.   16

9. What do you mean by DataSet ? Describe various objects/ components in a DataSet with examples.   16