(g) Briefly discuss the concept of namespaces in ADO.NET.

2

(h) What is the purpose of ADO.NET DataSet Class ? Discuss in brief.

2

UNIT—I

2. (a) What are the different components of .NET platform ? Discuss. 8

(b) Write a program in C# to insert an element at a specific location in an array. Appropriately assume any required information yourself. 8

3. (a) What are the benefits of the .NET approach ? Discuss. 8

(b) How C++ is different from C# ? List the major differences. 8

UNIT—II

4. (a) Write a program in C# to define and use a class Rectangle. The class should have two variables — length and width, and methods to set the values of variables and to calculate and display the area of the rectangle. Appropriately assume any required information yourself. 8

(b) How can we read and write binary files in C# ? Discuss with the help of suitable code snippets. 8

5. (a) Write a program in C# to demonstrate multi-level inheritance. 8

(b) Write a note on the utility of SOAP and XML in the context of C# Web Services. 8

UNIT—III

6. (a) Discuss the usage of RequiredField Validator and RangeValidator controls with the help of suitable examples. 8

(b) Briefly discuss the process of deploying ASP.NET applications with Windows Installer. 8

7. Write notes on the following :—

(a) Using inheritance in Windows Forms. 8

(b) Crating an installation package for a C# project. 8

UNIT—IV

8. Discuss ADO.NET architecture in detail explaining its major components. 16

9. (a) What is the use of SqlDataReader and SqlConnection classes ? Discuss. 8

(b) Explain the concept of DataAdapters and DataReaders in the context of ADO.NET. 8

(i) Printed Pages : 3   Roll No. *64049*

(ii) Questions : 9   **Sub. Code :** | 3 | 6 | 1 | 8 |

Exam. Code : | 0 | 4 | 6 | 1 |

M.Sc. Information Technology 3ʳᵈ Semester

(1129)

NET FRAMEWORK AND C#

Paper–MS-32

Time Allowed : Three Hours]   **[Maximum Marks : 80**

Note :—Attempt **FIVE** questions in all by selecting the compulsory question and at least **ONE** question from each unit.

1. (a) What is the purpose of Common Language Runtime (CLR) ? Discuss in brief.   2

   (b) How do you convert a string to a number in C# ? Discuss in brief.   2

   (c) Differentiate between early binding and late binding.   2

   (d) What is meant by serialization ? Discuss in brief.   2

   (e) What do you understand by ClickOnce Deployment ? Discuss in brief.   2

   (f) What do you understand by ASP.NET session ? Discuss in brief.   2