

(i) Printed Pages : 3

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(ii) Questions : 9

Sub. Code : 

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Exam. Code : 

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**M.Sc. Information Technology 3<sup>rd</sup> 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

- (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) Creating 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