

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII • EXAMINATION – WINTER 2013****Subject Code: 171604****Date: 03-12-2013****Subject Name: Dot Net Technology****Time: 10:30 TO 01:00****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain Following terms: 06
1) Side by Side Execution 2) MSIL 3) Managed Execution
- (b) Explain .NET Framework architecture with diagram and discuss its benefits. 08
- Q.2** (a) Write a VB.NET application to create your own class and demonstrate constructor overloading. 07
- (b) What is namespace? Discuss classes of System.Collections namespace. 07
- OR**
- (b) What do you mean by Inheritance? Explain Inheritance in VB.NET with appropriate example and code. 07
- Q.3** (a) Explain Error handling in VB.NET and Create a VB.NET Application to handle DivideByZeroException. 08
- (b) Explain Following with VB.NET code. 06
1) FolderBrowserDialog Control
2) SaveFileDialog Control
3) ColorDialog Control.
- OR**
- Q.3** (a) Explain Events and Delegates in C#. Write C# code to demonstrate use of Delegate. 07
- (b) Enlist various Windows Form Controls. Create a VB.NET Application for demonstrating use of any five Controls. 07
- Q.4** (a) Explain advantages of themes and master page in ASP.NET. Write sample web application to show use of themes. 07
- (b) Explain ASP.NET AdRotator Control with a example. 07
- OR**
- Q.4** (a) Compare classic ADO and ADO.NET. Draw ADO.NET Architecture. 07
- (b) What is Session? Explain ASP.NET Session state management. Write a code snippet to store session state in SQL Server. 07
- Q.5** (a) What is Thread? Discuss .NET's multithreading functionality by example. 07
- (b) Write an ASP.NET application to count number of visitors of page and also give code to insert data in MS SQL database table userInfo(having fields *id* and *username*) by establishing connection to the database. 07
- OR**
- Q.5** (a) Explain web services. Write a .NET based web service for calculator functionality include addition, subtraction and multiplication operations and code for consuming web service. 07
- (b) Draw and discuss WPF architecture. 07
