

Seat. No. _____

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BE SEMESTER-V EXAMINATION APRIL-2025

Subject Name: Dot Net Technology

Subject Code: CT506C-N

Date: 21/04/2025

Time: 12:30pm – 03:30pm

Total Marks: 70

Instructions:

1. Answer each section in separate answer sheet.
2. All questions are Compulsory.
3. Indicate clearly, the option you attempt along with its respective question number.
4. Use the last page of main supplementary of rough work.

Section-I

- Q-1** (A) Draw and explain the structure & components of the .NET Framework. [5]
(B) State and explain different functions of CLR. [5]
(C) Describe the compilation process of a .NET Framework program and explain its key components. [5]
- OR**
- (C) Compare and contrast the following concepts in .NET: [5]
(i) Array vs. ArrayList
(ii) Managed code vs. Un-managed codes
- Q-2** (A) What is an exception in C#? Describe different exception handling techniques with examples. [5]
(B) What is a Delegate? Explain briefly by taking suitable example. [5]
- OR**
- (A) Define Dispose and Finalization in .NET with suitable example. [5]
(B) Define Unsafe code in C#. How pointers are declared in C#? Explain with example. [5]
- Q-3** (A) Write a simple VB.NET class having a button on form and inherit the same class in C#. Show the entire procedure including compilation steps. [5]
(B) Discuss the following ADO.NET objects and demonstrate their use with examples: [5]
SqlConnection, SqlCommand, SqlDataAdapter
- OR**
- (A) What is method overloading and overriding? Create VB .Net console application to demonstrate both concepts. [5]
(B) List and explain different events and properties of Textbox and Form controls. [5]

Section-II

- Q-4** (A) Explain the Page Life Cycle of ASP.NET. [5]
(B) List and explain any four Validation Controls in ASP.NET with proper examples. [5]
(C) Explain the Repeater control in ASP.NET and demonstrate how to use it to display a product list with code and price. [5]

OR

- (C) Explain following ASP.Net Server Controls with suitable example [5]
1. CheckBoxList 2. Image 3. HyperLink

- Q-5** (A) Explain the concept of Master page in Web Base Application by writing steps to creating demo application with use. [5]
(B) What are Cookies and Sessions? How can they be created? Provide syntax and an ASP.NET program to illustrate their concept. [5]

OR

- (A) What is Theme? Create skin file to format various controls and give code to apply Theme in ASP.Net web page. [5]
(B) Define web Services in .NET. How to create and consume the web service in .NET? Explain with example. [5]

- Q-6** (A) What is WPF? Explain its architecture briefly. [5]
(B) Describe the different types of contracts in WCF with demo codes. [5]

OR

- (A) What is Windows Workflow Foundation (WWF)? Explain its architecture and key components in detail. [5]
(B) Describe the advantages and disadvantages of using AJAX in ASP.NET applications. [5]