

Seat No./Enrollment No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BACHELOR OF ENGINEERING – SEMESTER 6 – EXAMINATION – SUMMER 2026

Subject Code: 2160711

Date: 01/06/2026

Subject Name: .Net Technology

Time: 10:30 AM TO 01:00 PM

Total Marks: 70

Instructions:

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**
- 4. Simple and non-programmable scientific calculators are allowed.**

- Q.1**
- (a) List all the components of .NET framework. **03**
 - (b) Explain the concept of Reflection API. **04**
 - (c) Design Windows Form application for performing basic arithmetic operations based on the selection by user and show the result using MessageBox. **07**
- Q.2**
- (a) Demonstrate the use of GroupBox with an example. **03**
 - (b) What is the significance of Namespace? List any three Namespaces which we use in C#.Net. **04**
 - (c) Write a console application in C# for finding the factorial of a given number. **07**
- OR**
- (c) Write a console application in C# for finding the perimeter of the Rectangle. (Hint: Perimeter is the sum of all the sides of the Rectangle) **07**
- Q.3**
- (a) Demonstrate the use of RichTextBox control with an example. **03**
 - (b) Differentiate between Managed and Unmanaged Code in .Net Framework. **04**
 - (c) Demonstrate the use of SqlConnection and DataSet in ADO.Net. **07**
- OR**
- Q.3**
- (a) Demonstrate the use of ToolTip control with an example. **03**
 - (b) Explain the importance of MSIL? Which tool is used to compile the IL language? **04**
 - (c) Demonstrate the use of SqlDataSource Control for reading and writing. **07**
- Q.4**
- (a) Briefly explain Brush class in GDI+. **03**
 - (b) How Master Page can be used in ASP.Net? **04**
 - (c) Demonstrate the use of ASP.Net Validation controls with an example. **07**
- OR**
- Q.4**
- (a) Briefly explain Pen class in GDI+. **03**
 - (b) How Session can be managed in ASP.Net? **04**
 - (c) Design ASP.NET application (Draw rough UI of webform with required controls) through which student can do Registration and Login. **07**
- Q.5**
- (a) What is the importance of web.config file in web application? **03**
 - (b) Briefly explain: WCF **04**

(c) Create a web service to reverse a number. Also give code to consume it. **07**

OR

Q.5 (a) How exception can be handled in C#.Net? **03**

(b) Briefly explain: WPF **04**

(c) Create a web service to check that the number is even or odd. Also give code to consume it. **07**
