

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2024****Subject Code:2160711****Date:24-05-2024****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.

|   | <b>MARKS</b> |
|---|--------------|
| <b>Q.1</b> (a) Define following terms:<br>(1) MSIL (2) CLR (3) DLL  | <b>03</b>    |
| (b) What is namespace? Explain it in short.   | <b>04</b>    |
| (c) Draw and explain .Net architecture diagram and explain its various components in detail.                        | <b>07</b>    |
| <b>Q.2</b> (a) Differentiate managed code and unmanaged code.   | <b>03</b>    |
| (b) Demonstrate the use of CheckBox and RadioButton control.  | <b>04</b>    |
| (c) Write a console application to find peripheral of circle and triangle using the concept of function overloading | <b>07</b>    |
| <b>OR</b>   |              |
| (c) Write a C# program to generate IndexOutOfRangeException exception and also handle this exception.               | <b>07</b>    |
| <b>Q.3</b> (a) Differentiate Constructor and Destructor in C#.  | <b>03</b>    |
| (b) What is Inheritance? Explain it in brief with suitable example.   | <b>04</b>    |
| (c) Write a ASP.Net Employee form to insert the data in employee table (id, name, department, contact, address).    | <b>07</b>    |
| <b>OR</b>   |              |
| <b>Q.3</b> (a) Differentiate ADO and ADO.NET.   | <b>03</b>    |
| (b) Explain compilation process of .NET program.  | <b>04</b>    |
| (c) Write a console application to perform Celsius to Fahrenheit Conversion and Fahrenheit to Celsius conversion.   | <b>07</b>    |
| <b>Q.4</b> (a) What is End to DLL Hell?   | <b>03</b>    |
| (b) Explain reflection API with an example.   | <b>04</b>    |
| (c) Write a C# program which creates windows form with back colour as green.  | <b>07</b>    |
| <b>OR</b>   |              |
| <b>Q.4</b> (a) Explain Theme in short.  | <b>03</b>    |
| (b) What is Master page in ASP.Net? Explain in short.   | <b>04</b>    |
| (c) Explain objects of ADO.NET with syntax and example: SqlConnection, SqlDataAdapter, SqlCommand.                  | <b>07</b>    |
| <b>Q.5</b> (a) Write short note: (1) WPF (2) WCF  | <b>03</b>    |
| (b) What is Web Service?  | <b>04</b>    |
| (c) Explain any two events of ASP .NET page life cycle in detail  | <b>07</b>    |
| <b>OR</b>   |              |
| <b>Q.5</b> (a) Explain the concept of cookies in ASP.NET.   | <b>03</b>    |
| (b) Explain View State with example.  | <b>04</b>    |
| (c) Write a Web Service code to find area of triangle.  | <b>07</b>    |