

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2022****Subject Code:2160711****Date:10/06/2022****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.

**MARKS**

- Q.1**
- |     |  |           |
|-----|--|-----------|
| (a) | What is MSIL? What are its advantages?   | <b>03</b> |
| (b) | Define assembly and explain its types with example.                              | <b>04</b> |
| (c) | Draw and explain .Net architecture diagram and explain its components in detail. | <b>07</b> |

- Q.2**
- |     |  |           |
|-----|--|-----------|
| (a) | What is Garbage collection? What are its advantages?                   | <b>03</b> |
| (b) | Differentiate managed code and unmanaged code.                         | <b>04</b> |
| (c) | Write a console application to demonstrate Operator overloading in C#. | <b>07</b> |

**OR**

- |     |   |           |
|-----|---|-----------|
| (c) | Write and explain a console application to demonstrate Inheritance in C#. | <b>07</b> |
|-----|---|-----------|

- Q.3**
- |     |   |           |
|-----|---|-----------|
| (a) | What is Namespace in C# ? Explain in short.                             | <b>03</b> |
| (b) | Differentiate Constructor and Destructor in C#.                         | <b>04</b> |
| (c) | Write a console application to demonstrate DivideByZeroException in C#. | <b>07</b> |

**OR**

- Q.3**
- |     |   |           |
|-----|---|-----------|
| (a) | What is Indexer in C# ? Explain in short.   | <b>03</b> |
| (b) | Write a C# console application to count total number of alphabets, digits and special characters. | <b>04</b> |
| (c) | Write a C# program which creates windows form with back colour as red.                            | <b>07</b> |

- Q.4**
- |     |  |           |
|-----|--|-----------|
| (a) | What is Master page in ASP.Net? Explain in short   | <b>03</b> |
| (b) | Explain Theme in short.  | <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> |

**OR**

- Q.4**
- |     |  |           |
|-----|--|-----------|
| (a) | What is GDI+? Explain in short.  | <b>03</b> |
| (b) | Explain Cookies in short.  | <b>04</b> |
| (c) | Explain DataTable, DataSet and SqlConnection in ADO.Net with an example program. | <b>07</b> |

- Q.5**
- |     |   |           |
|-----|---|-----------|
| (a) | How Session is created in .Net?                               | <b>03</b> |
| (b) | Write short note: WPF, WCF                                    | <b>04</b> |
| (c) | Explain any two events of ASP .NET page life cycle in detail. | <b>07</b> |

**OR**

- Q.5** (a) What is Web Service? **03**  
(b) Explain View State with example. **04**  
(c) Write a Web Service code to find area of triangle. **07**

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