

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER- VI EXAMINATION – SUMMER 2020****Subject Code: 2160711****Date:02/11/2020****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.

		<b>MARKS</b>
<b>Q.1</b>	(a) Draw .Net framework architecture.	<b>03</b>
	(b) Demonstrate the use of RichTextBox control with an example.	<b>04</b>
	(c) Write a console application to find area of rectangle (a=wl) and circle using the concept of function overloading.	<b>07</b>
<b>Q.2</b>	(a) Give the significance of following names spaces. 1. system.data 2. system.sqlclient 3. system.io	<b>03</b>
	(b) Demonstrate the use of GroupBox with an example.	<b>04</b>
	(c) Design Windows Form application for adding item in tblItemMaster (ItemId, ItemName, ItemCategory, ItemPrice).	<b>07</b>
<b>OR</b>		
	(c) Design Windows Form application for performing arithmetic operations using TextBox, Label, Button and MessageBox.	<b>07</b>
<b>Q.3</b>	(a) Briefly explain Pen class and Brush class of GDI+.	<b>03</b>
	(b) Demonstrate the use for try...catch in handling errors.	<b>04</b>
	(c) Design ASP.NET application (Draw rough UI of webform with required controls) through which user can do login and change password.	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) How garbage collection is managed in .Net?	<b>03</b>
	(b) Write a C# code to draw and fill rectangle using Rectangle class.	<b>04</b>
	(c) Design ASP.NET application (Draw rough UI of webform with required controls. Write GridView Design code and C# code only) with following functionalities: 1. Staff can view Journal details (Jid, JName, JPubliser) in GridView 2. Staff can delete Journal information from GridView (Use RowCommand event).	<b>07</b>
<b>Q.4</b>	(a) What is the need of Property and Indexer?	<b>03</b>
	(b) Demonstrate the use of LinkedList with an example.	<b>04</b>
	(c) What is the role of DataTable, DataSet and SqlConnection in ADO.Net? Demonstrate with an example.	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	(a) Briefly explain the concept of Inheritance in C#.	<b>03</b>
	(b) Demonstrate the use of SortedList with an example.	<b>04</b>
	(c) Design faculty registration (FID, FName, FContactNo, FEMail, FAge) facility in ASP.NET with the use of proper ASP.NET validation controls.	<b>07</b>

- Q.5** (a) Enlist the applications where WCF can be useful. **03**  
(b) What is the use of Session? How Session can be created in .Net? **04**  
(c) Create an ASP.NET web service to show result of student based on entered enrollment number. Also write the code to consume it. **07**
- OR**
- Q.5** (a) Enlist the events of ApplicationState and give the significance of each. **03**  
(b) Briefly explain the concept of WPF. **04**  
(c) Create an ASP.NET web service which returns user password based on entered UserID. Also write the code to consume it. **07**

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