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.**

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

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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