Enrolment No./Seat No_____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE- SEMESTER–VI (NEW) EXAMINATION – WINTER 2024

Subject Code:2160711   **Date:05-12-2024**

Subject Name:.Net Technology

Time:02:30 PM TO 05:00 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)**	Explain metadata and intermediate language	**(3)**
	(b)	How we can create nested namespace in .net? explain with example.	**(4)**
	(c)	Write console based program in code behind language VB or C# to print following pattern.	**(7)**

```
N=4
              0
          1   0   1
      2   1   0   1   2
  3   2   1   0   1   2   3
```

Q-2	**(a)**	Explain Basic Class Library (BCL) in C#.	**(3)**
	(b)	Write different between properties and indexers	**(4)**
	(c)	Explain Constructor and Function Overloading with example.	**(7)**
		OR	
	(c)	What is the role of CLR in .NET framework? Explain any five services offered by CLR.	**(7)**

Q-3	**(a)**	List down various windows form controls. Explain any two of them briefly.	**(3)**
	(b)	Write C# code to prompt a user to input date ,month, and year and then the output will be shown as an example below: **Output:** Todys'Date is: 04-12-2018	**(4)**
	(c)	Explain major ADO .net objects. .(atleast 4)	**(7)**
		OR	
Q-3	**(a)**	Explain GDI+.	**(3)**
	(b)	Explain RequiredFieldValidator control, RangeValidator control, CompareValidator controls.	**(4)**
	(c)	Write a C# Program to List Files in a Directory.	**(7)**

Q-4	**(a)**	Explain Page Life Cycle of ASP.NET.	**(3)**
	(b)	Explain following controls with its properties. AdRotator; FileUpload;	**(4)**
	(c)	Explain session and application state in detail. Also differentiate them	**(7)**
		OR	
Q-4	**(a)**	List out the advantages and disadvantages of SQL –Backed Session State	**(3)**
	(b)	What is webservice? Create a web service to subtract two numbers. Also give code to Consume it.	**(4)**
	(c)	What is SqlDataReader? Explain it with relevant example.	**(7)**

Q-5	**(a)**	Differentiate between Master Page and Theme Page in ASP.NET	**(3)**

(b) Write a C# code to bind data from given table to Combobox Control using DataAdapter. Table : Cricketer (Name , Type) **(4)**

(c) Explain data binding with Gridview control related to ADO.NET Technology. **(7)**

OR

Q-5 **(a)** List out the features of WPF **(3)**

(b) Explain PageSetupDialog Control with its properties. **(4)**

(c) Write ASP.Net program to Store Objects in Session State and Storing Session State in SQL Server. **(7)**

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