Darshan Institute of Engineering & Technology

B.Tech. | Sem-6 | Summer-2025

Course Code	: 2101CS611	**Date**	: 11-04-2025
Course Name	: Advanced Dot Net	**Duration**	: 150 Minutes
		Total Marks	: 70

Instructions:
1. Attempt all the questions.
2. Figures to the right indicates maximum marks.
3. Make suitable assumptions wherever necessary.

Q.1	**(A)**	Explain Key Characteristics of Web APIs.	**4**
	(B)	Discuss HTTP Request Components.	**3**

OR

Discuss HTTP Response Components.

	(C)	Create a Web API that inserts record in given table. Student (ID, Name, Gender, Age, Department, City)	**7**

OR

Create a Web API that deletes record in given table.
Student (ID, Name, Gender, Age, Department, City)

Q.2	**(A)**	What is API Versioning? Explain Major Update & New Features in Versioning.	**4**
	(B)	Explain Order Property of Route in API.	**3**

OR

What is Routing in Web API? Explain in detail.

	(C)	Explain Fluent API String Validators.	**7**

OR

Explain Fluent API Number Validators.

Q.3	**(A)**	Difference Between jQuery & AJAX.	**4**
	(B)	Write a short note on Types of AJAX call.	**3**

OR

What is AJAX? How it Works?

	(C)	Explain jQuery Mouse Events.	**7**

OR

Explain jQuery Selectors.

Q.4 **(A)** Explain Built in Tag Helpers in ASP.NET Core. **4**

(B) Explain Exception Filters in ASP.NET. **3**

OR

Explain Result Filters in ASP.NET.

(C) Explain @html.Partial(), @html.RenderPartial(), and @html.RenderAction() **7**

OR

Create Partial View of Header & render in All views.

Q.5 **(A)** Explain LINQ Architecture in detail. **4**

(B) What are Lambda Expression? Explain its type with example. **3**

OR

Write advantages and disadvantages of LINQ

(C) When to Use LINQ Aggregate Operators in C#? Explain LINQ Aggregate Operators. **7**

OR

Explain Projection Operations in LINQ.

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