



Course Code	: 2101CS611	Date	: 15-04-2024
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)** Write a short note on different styles of JSON. **4**
- (B)** Discuss problems without Web APIs. **3**

OR

Explain key characteristics of Web APIs.

- (C)** Explain Middlewares in ASP.NET Core Web API. **7**

OR

Explain HTTP Status Codes.

- Q.2 (A)** Write a note on Data Annotation Validation Attributes. **4**
- (B)** Define: API Versioning & Explain Major Update & New Features in API Versioning. **3**

OR

Write a note on URL versioning & Header versioning in API.

- (C)** Explain Basic Fluent Validators in API with an Example. **7**

OR

Explain Fluent API Number Validators with an Example.

- Q.3 (A)** Demonstrate AJAX Properties with example. **4**
- (B)** Compare: jQuery & AJAX **3**

OR

Abstract brief about The Document Ready Event.

- (C)** Demonstrate jQuery Selectors with an Example. **7**

OR

Demonstrate jQuery Form Events with an Example.

- Q.4** **(A)** Explain Execution Order of Filters in ASP.NET Core. **4**
 (B) List Types of Action Filters & Explain Authorization Filters. **3**

OR

Define [RequireHttps] Action Filter.

- (C)** Demonstrate Custom Tag Helper with an Example. **7**

OR

What is Views in ASP.NET Core? Demonstrate Partial Views.

- Q.5** **(A)** Compare: IEnumerable & IQueryable interface. **4**
 (B) List Key features of LINQ. **3**

OR

Write advantages and disadvantages of LINQ.

- (C)** Apply LINQ operators to perform following queries. **7**
Schema: **Employee** (EmpID, Name, Dept, Mobile, Salary, JoiningDate, Gender)
 1. Display Employee name with their mobile no.
 2. Display employees whose name starts with 'F'.
 3. Display employees whose salary is less than 25000.
 4. Find max salary of staff who joined before 31/03/2023 and belongs to 'Sales' department.
 5. Find total salary of Distribution department.
 6. Find total female employees working in Mumbai.
 7. Display employee by their department name in ascending order.

OR

Apply LINQ operators to perform following queries.

- Schema: **Student** (RNo, Name, Mobile, Email, Branch, Age, Sem, SPI)
 1. Display student name with their semester.
 2. Display students whose email contains '@gmail'.
 3. Display students of 6th semester computer branch.
 4. Display students whose RNo is between 121 to 130.
 5. Find total students of 'Electrical' branch.
 6. Find average SPI of 4th semester 'Mechanical' branch.
 7. Display students by their semester in descending order.
