

UNIT-1

1. Asynchronous programming
2. MVC architecture pattern
3. NuGet Package
4. Expression Bodied Members
5. Tuple Type
6. What is Local Function? How is it different from normal function? Explain with example.
7. How is URL Routing and Routing Configuration managed in ASP.NET Core MVC?
8. What is Pattern Matching in C#? Explain with examples.

UNIT-2

1. LINQ Query Statement
2. Explain LINQ architecture in .NET application development.
3. What is LINQ? How it can be used for different data storage types? Explain its usefulness in application development.
4. What is LINQ? List out LINQ query with suitable example. List out the advantage of LINQ over SQL query.
5. What is LINQ? Explain its advantage and different patterns to use it in C# application.
6. Generic type? How unification of homogeneous function can be achieved using it? Explain by giving example.
7. Working with SQL and No-SQL Data Storage Types
8. Why do we need to restrict data type in a Generic class? How to restrict type in Generic class? Explain with example.

9. Compare the Code First and Data First approaches in Entity Framework.

UNIT-3

1. How MVC application is useful for rapid application development?
2. Explain ASP.NET Core MVC web application structure in details.
3. Explain Dependency injection with small Example
4. Restful web services
5. Async return types
6. How to pass data between Controller and View? Explain with example.
7. What are Action Filters in ASP.NET Core MVC? Explain their types and usage.
8. How is Middleware configured in ASP.NET Core?
9. Explain the Razor View Engine and its advantages.
10. What is Blazor, and how does it differ from Razor?
11. How is the User Interface created using Blazor?

UNIT-4

1. What is web API? How to create it and consume it? Explain with example.
2. What is MVC Core Web API? How is the controller different from the ASP.NET Core MVC application?
3. How is a Minimal API created and used in ASP.NET Core?

UNIT-5

1. Self-hosting of web Application.

2. Identity Configuration
3. How to configure an MVC application for Identity Management?
4. Working with OpenID and OAuth login
5. Discuss Security and Identity Management in ASP.NET Core.