

## **ASP.net and C# Question Bank**

### **UNIT I:**

1. What is the .NET framework? Explain its components with proper diagram.
2. What is Website? Explain how it is different from web application.
3. What is Web Application? Explain how it is different from website.
4. Difference between website and web application.
5. Explain Visual Studio IDE with menus with the help of proper diagram. (Solution explorer & it's options, menu bar, code editor window, editions)
6. Explain the concept of presentation layer and write the steps to create presentation layer using html and css. (Code and its Output)
7. What are the two types of layouts in ASP.Net? Give the difference between them using css.
8. What is ASP.NET, and what is its role in web development?
9. Explain the use of cascaded style sheets.

### **UNIT II:**

1. Explain the features of C#.NET programming.
2. Write a short note on Data type conversion.
3. Write a short note on Data types in C#
4. Write a short note on Arrays in C#.
5. Describe the operators in C#.
4. How to create classes and objects in c#? Explain with suitable example.
5. What is a namespace? Explain with suitable examples.
6. Explain foreach loop with examples.
7. Explain the concept of jagged array in C#.
8. Write a short note on:  
a)web.config      b)global.asax      c)Master Page
9. What do you mean by Master Page? Explain with proper example.
10. Describe event handling in C#.
11. Describe exception handling in C#.
12. What are the 4 different methods through which we can navigate among webpages?

### **UNIT III:**

1. Explain ASP.NET Page Life Cycle with its events and diagram.
2. Explain ASP.NET Application Life Cycle with its events and diagram.
3. Explain Validation Controls in ASP.NET with proper example.
4. Explain Standard Controls in ASP.NET with proper example.
5. Explain session management in ASP.NET with suitable example.
6. Explain state management in ASP.NET with suitable example.
7. Explain Query string and View State with proper example.
8. Explain the concept of user control with execution steps.
9. Design Login form using session management.

### **UNIT IV:**

1. Explain ADO.net Architecture with the help of diagram.
2. What is the difference between connected and disconnected architecture in ASP.Net and C#.
3. Describe ADO.Net Framework Data Providers and ADO.Net Framework Data Providers objects.
4. Describe data provider for SqlServer and Oracle.
5. Explain CRUD operations in ASP.NET & C#
6. Explain DataSet and DataAdapter in ASP.NET & C#.
7. What is GridView in C#?

8. What is repeater control in Asp.net and C#.
9. Write a note on Working with Data Controls in Asp.net and C#.

**UNIT V:**

1. Describe the architecture of AJAX in ASP.NET and list the main components involved in an AJAX request with proper diagram.
2. Explain the role of AJAX in modern web applications and how it enhances user experience in ASP.NET.
3. Explain ScriptManager control in asp.net and C#.
4. Discuss how the ScriptManager control is used in ASP.NET to enable AJAX functionality.
5. Describe how the UpdatePanel control works in ASP.NET and provide an example of using it for partial page updates. Explain Ajax control toolkit in asp.net and C#.
6. Explain IIS in asp.net.
7. Describe the life cycle of an AJAX request in ASP.NET, from the initial client request to the server response.
8. Explain how to handle AJAX errors in ASP.NET applications. Describe a few common error handling techniques.
9. Explain the role of JSON (JavaScript Object Notation) in AJAX communication and how it is used to transfer data between client and server in ASP.NET.
10. Explain the difference between synchronous and asynchronous requests in the context of AJAX. How does asynchronous communication improve performance?