**AWT**

**UNIT 1**

(**NOV 2018)**

a. What is namespace? Explain with the help of an example.

b. Explain jagged array with an example.

c. What is .NET Framework? Explain its architecture in brief.

d. Write a program in C# to demonstrate multiple inheritance using interfaces.

e. Explain various types of constructors in C#.

f. What is delegate? Explain multicast delegate with an example

**(NOV 2019)**

1. What are .NET languages? Explain various features of C#.
2. What is property? Explain read-write property with proper syntax and examples.
3. Explain static constructor and copy constructor with examples.
4. Explain 1 dimensional and 2 dimensional arrays with proper syntax and examples.
5. Define inheritance. Explain single inheritance with example.
6. List various reference types in C#. Also explain boxing operation with example.

**(APRIL 2019)**

1. Draw and explain .NET framework architecture.
2. Elaborate array memory representation with an example.
3. Explain any 5 properties/ methods of Math Class.
4. Give details about Type Conversion.
5. Write short note on Value type and Reference types.
6. Explain static member and partial class

**(NOV 2022)**

1. Explain foreach loop with suitable examples.
2. Distinguish between interface and abstract classes.
3. Explain namespace? Describe the system namespace.
4. What is an assembly? Explain the difference between public and private assembly.
5. Write a sample C# program to demonstrate class, object and method call. Use comments wherever required.
6. Define the accessibility modifier-public, private, protected, internal and protected internal.

**(NOV 2023)**

1. Draw and explain .NET framework architecture.
2. How does the Garbage Collector function in the context of .NET? Provide a brief overview of the Base Class Library in .NET.
3. Explain any 5 properties/ methods of Array Class.
4. Explain the process of datatype conversion in C# and identify its various types.
5. How to derive New Class from Base Class? Give example.
6. What steps are involved in constructing a fundamental Class in C#? Please delineate the different class modifiers.

**(APRIL 2023)**

a. What is .NET framework? Explain in detail .NET framework along with a neat diagram.

b. What is garbage collection? How does it work in .NET?

c. Explain compiling and execution of a C# program.

d. What is difference between value type and reference type in C#?

e. Explain inheritance along with its types.

f. What is an ArrayList? State its methods and properties

**UNIT 2**

**(NOV 2018)**

a. What is the difference between ListBox and Drop Down List? List and explain any three common properties of these controls.

b. Explain AdRotator control with an example.

c. List and explain any four types of validation controls used in ASP.NET.

d. Explain Calendar control with an example in ASP.NET.

e. Write short note on Page class.

f. Explain SiteMapPath control in ASP.NET

**(NOV 2019)**

1. What are .aspx files? Explain code behind class file in detail.
2. Explain each of the following in brief:
3. Web Forms
4. Post back
5. Page rendering
6. Page load event
7. Page PreRender event
8. List any four category of server controls. Explain common properties of web server controls
9. Explain the basic functionality of each of the following webserver controls:
10. CheckBox
11. TextBox
12. DropDownList
13. Menu
14. Write short note on various validator controls.
15. What are rich controls? Briefly explain about Calendar and AdRotator controls.

**(APRIL 2019)**

a. List and explain any 5 templates to create ASP.NET applications.

b. Explain Anatomy of a Webform.

c. Write a note on Page class.

d. Explain any five properties of List box and Drop-down list controls.

e. Write a note on AdRotator control.

f. Brief about Graphics class and it's any 5 methods.

**(NOV 2022)**

1. What is postback? Explain IsPostBack property with suitable example.
2. List and describe the various file types used in ASP.NET application.
3. What is an event? How is an event handler added?
4. Write a short note on List controls in ASP.NET.
5. Explain the need of user control. How is it created and used?
6. What is the purpose of validation controls? List and explain the use of validation controls available in ASP.NET.

**(NOV 2023)**

1. Enumerate and elaborate on the different file types accessible within an ASP.NET Application?
2. What is view state? Give the advantages and disadvantages of view state.
3. Provide a concise overview of Application Events.
4. Explain ListBox control with properties and methods.
5. Write short note on AdRotator and Calendar controls.
6. What is RangeValidator? Describe any four properties of it.

**(APRIL 2023)**

a. Write a short note on ASP.NET page life cycle.

b. List and explain various types of files which are used in an ASP.NET application.

c. Write a short note on AdRotator control.

d. Explain Calendar control with example.

e. What is meant by validation of data? How to use ASP.NET validation control to

validate the user input?

f. Explain any two Site Navigation Controls in ASP.NET**.**

**UNIT 3**

**(NOV 2018)**

a. What is user-defined exception? Explain with example.

b. What is debugging. Explain the process of debugging in detail.

c. Write short note on cookies in ASP.NET.

d. What is ViewState in ASP.NET? State its Advantages and Disadvantages.

e. Create a web application to demonstrate use of Master Page with applying styles and

themes for page beautification. Write necessary steps with code for the same.

f. Explain the four most important selectors present in CSS.

**(NOV 2019)**

1. Explain exception handling mechanism with proper syntax and example.
2. Describe session state variables in ASP.NET.
3. Explain state management through persistent cookies.
4. Describe the features and benefits of master pages in ASP.NET.
5. What is a theme? How does it work?
6. What are the three different ways to use styles on web pages? Explain various category of style setting in New Style dialog box.

**(APRIL 2019)** a. Explain exception handling mechanism in C# with its key features.

b. What are State management techniques in ASP .Net?

c. Elaborate cookies with suitable code snippet.

d. What is cross page posting? Explain with an example.

e. Explain Master Page with its uses and working.

f. What is Theme? Explain Global theme.

**(NOV 2022)**

1. Describe the use of multiple catch statements in exception handling using example.
2. What is QueryString? How to send a name and marks of a student from one page to another using QueryString?
3. Explain the events in global.asax file with respect to state management
4. How the connection between the content page and the master page is established?
5. What is the theme? Explain how to create and use a theme on a website.
6. What is URL mapping? How is URL mapping and routing implemented in ASP.NET?

**(NOV 2023)**

1. Explain exception handling mechanism in C#.
2. Explain the predefined classes related to System Exception.
3. What are the Server-Side State Management techniques? Explain it.
4. Illustrate the usage of Cookies in an ASP.NET Application with an example.
5. What is Theme? Explain Global theme.
6. What is Master Page? How is it utilized in ASP.NET?

**(APRIL 2023)**

a. Explain Page Tracing in ASP.NET with an example.

b. Write a short note on Query Strings state management technique.

c. Develop ASP.Net web application to count total number of visitors visited to an

ASP.NET website.

d. What is CSS? List and explain types of CSS.

e. What is a mater page? Explain the advantages of using master page.

f. What are themes? Explain procedure of creating and using themes in a website.

**UNIT 4**

**(NOV 2018)**

a. List and Explain ADO.NET objects

b What is DataReader in ADO.NET? Explain with an example.

c Explain SqlDataSource in ADO.NET.

d What is a GridView control? Explain with an example

e What are the application services provided in ASP.NET? Explain.

f Differentiate between FormView and DetailsView in ASP.NET.

**(NOV 2019)**

1. What is data binding? Explain repeated value data binding with example.
2. Write any three similarities between FormView and DetailsView controls. Explain about item template of form view.
3. Explain data binding with a dictionary collection.
4. Explain various style properties of GridView control.
5. Briefly explain following features of GridView control.
6. Sorting
7. Paging
8. Selecting a row
9. Editing a row
10. Describe ASP.NET provider model and direct data access method.

**(APRIL 2019)**

a. Explain the SQL Data Provider Model.

b. Give details about DataReader with example.

c. What is Data Binding? Explain its types.

d. Write short note on Data Source Controls.

e. Explain the ways of formatting the GridView Data for display.

f. Write short note on selecting a GridView Row.

**(NOV 2022)**

1. Describe the SqlConnection class with an example.
2. Differentiate between DataSet and DataReader.
3. Write C# code to insert data in database table. Write comments wherever required.
4. What is use of data source control? Explain various types of data sources in ASP.NET.
5. Write a code to display data from a table named Students (RollNo, Name, Marks) and display on grid view control when page is loaded.
6. Describe (i) ExecuteNonQuery, (ii)ExecuteScalar, and (iii) Execute Reader

**(NOV 2023)**

1. Explain the Data Provider Model within ADO.NET.
2. Write short note on Connected and Disconnected Data Access
3. Write a brief explanation of the types of ASP.NET Data Binding.
4. Explain the Page Life Cycle with Data Binding.
5. Explain the GridView Control and its methods for defining columns
6. Write short note on DetailsView.

**(APRIL 2023)**

a. Draw and explain ADO.NET data provider model with diagram.

b. Explain (i) ExecuteNonQuery (ii) ExecuteScalar (iii) ExecuteReader

c. Write a short note on Data Binding.

d. Explain SqlDataSource control.

e. What is difference between DeatilsView and FormView control?

f. Compare: Data Adapter and Data Reader.

**UNIT 5**

**(NOV 2018)**

a. Explain XmlTextReader and XmlTextWriter with an example.

b. What is XElement? Explain with an example.

c. What do you mean by authentication? Explain its types.

d. What do you mean by Impersonation in ASP.NET? Explain.

e. Explain ASP.NET AJAX Control Toolkit.

f. Create a web application to demonstrate the use of HTMLEditorExtender Ajax Control.

Write the code of default.aspx and required property settings for the same.

**(NOV 2019)**

1. Explain different types of authentication in ASP.NET.
2. What is XML? What are its basic characteristics?
3. What is the use of XMLTextWriter class? Explain various methods of this class.
4. What is authorization? Explain adding authorization rules in web.config file.
5. Explain the working of update progress control in detail.
6. Explain about implementation of timed refreshes of update panel using timer.

**(APRIL 2019)**

a. Write short note on the XML Text Reader class.

b. Explain the reading process from an XML Document with example.

c. Define Authentication and Authorization. Give types of Authentication.

d. What is Windows Authentication? Give details.

e. Explain AJAX with its advantages and Disadvantages.

f. Give brief information on Accordion control with appropriate properties.

**(NOV 2022)**

1. Write a code to save employee data as empId, empName, empDept, and empDesignation data in an XML file.
2. What is XML? List and explain the various XML classes.
3. What do you mean by “authentication”? Describe its various types of authentication.
4. Explain the use of UpdateProgress control in AJAX.
5. What is use of timer control? Write the steps with appropriate code to create an application to display real-time timing(clock) on an asp.net web page.
6. What are the benefits using Ajax? Explain UpdatePanel and ScriptManager.

**(NOV 2022)**

1. Provide an explanation of the XML TextWriter class, including its methods.
2. Describe the process of reading an XML document using the XDocument class.
3. Elaborate Forms Authentication.
4. Write a short note on Authentication and Authorization.
5. What is AJAX? What are its advantages?
6. Write short note on Accordion control with appropriate properties.

**(APRIL 2023)**

a. Explain the working of AJAX.

b. What is XML? List the various XML classes.

c. What do you mean by authentication and Authorization? Explain its types.

d. Explain ScriptManager and Timer controls.

e. Explain AutoCompleteExtender in ASP.NET AJAX Control Toolkit.

f. How web.config file is used to implement forms authentication in ASP.NET?