

## AWP Question Bank 2018 – 19

| <b>UNIT 1: CHAPTER 1: Introducing .NET</b>               |  |
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| 1.   | What is .NET framework? Explain in detail .NET framework 4.5 with diagram.   |
| 2.   | What is CLR? Explain CIL and JIT?  |
| 3.   | Explain the terms: (i) MSIL (ii) CTS (iii) CLS   |
| 4.   | List and explain the services provided by CLR.   |
| 5.   | Explain managed code and unmanaged code? What are the advantages of using managed code?  |
| 6.   | What is garbage collection? How it works in .NET?  |
| 7.   | Short note on Base Class Library (NET Class Library).  |
| <b>UNIT 1: CHAPTER 2: The C# Language</b>                |  |
| 8.   | List and explain the rules of variable declaration in C#.  |
| 9.   | Explain the characteristics of C#. State the applications you can write with C#.   |
| 10.  | Explain compiling and execution of a C# program.   |
| 11.  | What is the difference between Write () and WriteLine ()? Explain with an example  |
| 12.  | C# is a true object oriented language. Justify.  |
| 13.  | Explain inheritance with its types.  |
| 14.  | Differentiate between method overloading and method overriding.  |
| 15.  | Distinguish between interface and abstract classes.  |
| 16.  | Explain how you will implement delegates in C#.NET.  |
| 17.  | Write a short note on switch statement. What is fallthrough with respect to switch in C#?  |
| 18.  | Differentiate between for loop and foreach loop.   |
| 19.  | Explain else...if ladder with example.   |
| 20.  | In what context for loop is not useful and foreach loop is useful. Explain with example  |
| 21.  | What is the difference between "continue" and "break" statements in C#?  |
| <b>UNIT 1: CHAPTER 3: Types, Objects, and Namespaces</b> |  |
| 22.  | What are the different types of data-types that we can use in a C# program?  |
| 23.  | Explain class and object in C# with example.   |
| 24.  | How class methods are defined and accessed?  |
| 25.  | What are partial classes in C#?  |
| 26.  | Describe the accessibility modifiers (public, private, protected, internal, and protected internal) in c#.   |
| 27.  | What is difference between value type and reference type in C#.  |
| 28.  | Explain the concept of boxing and unboxing.  |
| 29.  | How type conversion is done in C#.   |
| 30.  | Write a short note on namespaces. Explain System namespace.  |
| 31.  | Explain the use of Using statement in C#.  |
| 32.  | What is an ArrayList? State its methods and properties.  |
| 33.  | What is an assembly? Explain public and private assembly.  |
| 34.  | What is sealed class?  |
| 35.  | What are various types of classes in C#?   |
| <b>UNIT 2: CHAPTER 4: Web Form Fundamentals</b>          |  |
| 36.  | Explain the various elements of .aspx file (Ans-Code declaration block, code render block, ASP.NET sever controls, server side comments, literal text and HTML controls/tags). |
| 37.  | Explain ASP.NET Application life cycle.  |

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| 38.                                     | Explain ASP.NET page life cycle.   |
| 39.                                     | Explain the various directive supported by ASP.NET page.   |
| 40.                                     | What is post-back event? Explain with suitable example.  |
| 41.                                     | Differentiate between HTML server controls and Web server controls                                       |
| 42.                                     | Explain ASP.Net web form (.aspx) and its structure.  |
| 43.                                     | What is web form? Explain Anatomy of an ASP.NET Application.   |
| 44.                                     | List and explain various types of files which are used in an ASP.NET application.                        |
| 45.                                     | Explain the concept of event with the help of a diagram.   |
| 46.                                     | What is an event? Write a procedure to add event handler code in an ASP.NET application.                 |
| 47.                                     | Short note Page class in ASP.NET.  |
| 48.                                     | Differentiate between inline code and code behind?   |
| 49.                                     | What is an event? How event handler is added?  |
| 50.                                     | Explain web.config file with example.  |
| <b>UNIT 2: CHAPTER 5: Form Controls</b> |  |
| 51.                                     | List and explain common properties of web server controls.   |
| 52.                                     | Explain Check Box and RadioButton.   |
| 53.                                     | Explain RadioButtonList and CheckBoxList controls with example.  |
| 54.                                     | Explain Sorted, SelectedMode, MultiColumn, SelectedItem and SelectedIndex properties of ListBox control. |
| 55.                                     | Explain a syntax of sitemap file with suitable example.  |
| 56.                                     | Explain the need of site navigation controls (Dynamic Menus, Tree Views and SiteMap Path)                |
| 57.                                     | Explain various methods of redirecting web pages   |
| 58.                                     | What is difference between Response.Redirect and Server.Transfer? Explain with suitable example.         |
| 59.                                     | Explain the need of user control.  |
| 60.                                     | Explain site navigation controls in ASP.NET.   |
| 61.                                     | Describe the process of creating a user control with an example.   |
| 62.                                     | What is the need of @Register directive in user control.   |
| 63.                                     | Explain TagPrefix, TagName, src attributes of @Register directive with example.                          |
| 64.                                     | Explain the use CompareValidator with example.   |
| 65.                                     | What is validation of data? How to use the ASP.NET validation control to validate the user Input.        |
| 66.                                     | What are the properties are required to set to validate a particular text box using RangeValidator.      |
| 67.                                     | Explain the use of RegularExpressionValidator with example.  |
| 68.                                     | Explain the use of RequiredFieldValidator with example   |
| 69.                                     | How CustomValidator control is used to define our own function to validate data?                         |
| 70.                                     | Explain AdRotator control with example.  |
| 71.                                     | How URL mapping and routing implemented in ASP.NET?  |
| 72.                                     | Explain MultiView control in ASP.NET. What is the use of ActiveViewIndex property?                       |
| 73.                                     | Explain Calendar control with example.   |
| 74.                                     | Explain Table control with suitable example.   |
| 75.                                     | How Chart control is used?   |
| 76.                                     | Explain how graphics is added on asp.net web form.   |

| <b>UNIT 3: CHAPTER : Error Handling, Logging, and Tracing</b> |  |
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| 77.   | What is an exception? How exceptions are handled in ASP.NET application?   |
| 78.   | Explain Page Tracing in ASP.NET with example.  |
| 79.   | How can we throw our own exception in ASP.NET application?   |
| 80.   | Explain multiple catch statements in exception handling.   |
| 81.   | What is the significance of finally block?   |
| 82.   | Why default catch block should be first with multiple catch blocks? Explain with suitable example.   |
| <b>UNIT 3: CHAPTER : State Management</b>                     |  |
| 83.   | What is the need for state management techniques?  |
| 84.   | What is state management? Why state management implemented explicitly in ASP.NET?  |
| 85.   | Short note on ViewState state management.  |
| 86.   | Short note on Query strings state management.  |
| 87.   | Short note on HiddenField state management.  |
| 88.   | Short note on Application state management.  |
| 89.   | Short note on Session state management.  |
| 90.   | Develop ASP.Net application to count total number of visitors visited to an ASP.NET website.   |
| 91.   | Develop ASP.Net application to count the number of online visitors of an ASP.NET website.  |
| 92.   | Explain global.asax file.  |
| 93.   | Explain the use global.asax file with respect to state management.   |
| 94.   | Design form for user registration. Write code to display the entered information on another form using any one of the state management techniques. |
| <b>UNIT 3: CHAPTER : Styles, Themes, and Master Pages</b>     |  |
| 95.   | What is theme? List the advantages of using theme in a website.  |
| 96.   | What is named theme? Explain procedure of creating and using named theme in a website.   |
| 97.   | What is CSS? List and explain needs of CSS.  |
| 98.   | What is default theme? Explain procedure of creating and using default theme in a website.   |
| 99.   | List and explain the process of creating and using CSS using Visual Developer 2010.  |
| 100.  | State the advantages of Themes over CSS.   |
| 101.  | What is CSS? Explain inline and embedded CSS.  |
| 102.  | Explain internal and external CSS.   |
| 103.  | What is mater page? Explain the advantages of using master page.   |
| 104.  | How to create master page using an existing design template?   |
| 105.  | What is the relationship between content page and master page?   |
| 106.  | Explain nested master page in ASP.Net.   |
| <b>UNIT 4: CHAPTER : ADO.NET Fundamentals</b>                 |  |
| 107.  | Draw and explain ADO.NET data provider model object model with diagram.  |
| 108.  | Explain SqlConnection class with example.  |
| 109.  | Explain Data Adapter by giving suitable example.   |
| 110.  | Write ASP.NET code to search a record in database table. Write comments wherever required.   |
| 111.  | Explain SqlDataSource control.   |
| 112.  | When do you use ExecuteReader(), ExecuteNonQuery(), ExecuteScalar() methods?   |

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| 113.   | List the 4 common ADO.NET Namespaces?  |
| 114.   | List all the steps in order, to access a database through ADO.NET?   |
| 115.   | Explain DataAdapter object with its properties and methods.  |
| 116.   | Differentiate between DataSet and DataReader.  |
| 117.   | Explain (i) ExecuteNonQuery (ii) ExecuteScalar (iii) ExecuteReader   |
| 118.   | Explain Connected and disconnected architecture in ADO.net.  |
| 119.   | Write c# code to insert data in database table. Write comments wherever required.  |
| 120.   | Write c# code to search data in database table. Write comments wherever required.  |
| 121.   | Explain Command object with its properties and methods.  |
| <b>UNIT 4: CHAPTER : Data Binding</b>          |  |
| 122.   | What is data binding? Explain single-value data binding and repeated-value data binding.                                     |
| 123.   | What is connected access and disconnected access in asp.net?   |
| 124.   | How to achieve DataBindings for TextBoxes using SQL Server in .NET.  |
| 125.   | Explain the difference between #Eval and #Bind.  |
| 126.   | Explain in brief the Data Bound Controls.  |
| <b>UNIT 4: CHAPTER : The Data Controls</b>     |  |
| 127.   | Write code to display data from database table onto DataGrid/Grid/DeatilsView control.                                       |
| 128.   | Explain GridView control with its templates. Explain Sorting and Paging in the GridView.                                     |
| 129.   | What is difference between DeatilsView and FormView control with example?  |
| 130.   | How does the ListView and DataPager control display the data on the browser?   |
| 131.   | How to display data in a DataGrid with relationship between two tables.  |
| 132.   | What are the different types of data controls in ASP.net?  |
| <b>UNIT 5: CHAPTER : XML</b>                   |  |
| 133.   | What is XML? List the advantages of XML.   |
| 134.   | What is well formed XML? Describe the rules and regulations that must be followed while creating a well-formed XML document. |
| 135.   | Differentiate between HTML and XML.  |
| 136.   | What is XML? List the various XML classes.   |
| 137.   | Explain the XmlReader class.   |
| 138.   | Explain the XML elements.  |
| 139.   | What is XmlTextWriter? Explain with example  |
| 140.   | What is XmlTextReader? Explain with example  |
| 141.   | What is XmlDocument? Explain with example  |
| 142.   | What is XElement? Explain with example   |
| 143.   | What is XML Validation?  |
| 144.   | What is an XML schema?   |
| 145.   | Define XSD. What are the advantages of XSD?  |
| 146.   | State the advantages of XML schemas over DTD.  |
| 147.   | What is XML Transform using XslCompiledTransform class? Explain with example.  |
| <b>UNIT 5: CHAPTER : Security Fundamentals</b> |  |
| 148.   | What do you mean by authentication? Explain its types.   |
| 149.   | What do you mean by Impersonation in ASP.NET?  |
| 150.   | Steps to use Windows authentication with sample code   |
| 151.   | Explain various types of authentication mechanism provided by ASP.NET.   |

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| 152.                                  | Short note on Web Site Administration Tool (WAT) in ASP.NET.                                  |
| <b>UNIT 5: CHAPTER : ASP.NET AJAX</b> |   |
| 153.                                  | What is AJAX? Its Advantages and Disadvantages  |
| 154.                                  | What are the benefits using Ajax? Explain UpdatePanel and ScriptManager.                      |
| 155.                                  | Explain the use of UpdateProgress control in AJAX.  |
| 156.                                  | Develop an application to display progress image while page is being processed at sever side. |
| 157.                                  | Explain the use of Timer control in AJAX.   |
| 158.                                  | Explain ASP.NET AJAX Control Toolkit.   |
| 159.                                  | Explain Accordion in ASP.NET AJAX Control Toolkit.  |
| 160.                                  | Explain AutoCompleteExtender in ASP.NET AJAX Control Toolkit.                                 |
| 161.                                  | Develop an application to display real time timing (clock) on asp.net web page.               |