

SET-1

1. What is the full form ASP?

- A. Access Server Pages
- B. Active Service Pages
- C. Active Server Pages
- D. Access Service Pages

Answer: C) Active Server Pages

2. ASP.NET is a ____.

- A. Client-Side technology
- B. Server-side technology
- C. Both
- D. None

Answer: B) Server-side technology

3. Which of the following programming language can be used with ASP.NET?

- A. C#.NET
- B. VB.NET
- C. Both
- D. None

Answer: C) Both

4. What is the extension of the ASP.NET page?

- A. .asp
- B. .aspx
- C. .asx
- D. .apx

Answer: B) .aspx

5. Is ASP.NET Web form part of ASP.NET core?

- A. Yes
- B. No

Answer: B) No

6. Which of the following technologies are also used with ASP.NET?

- A. CSS
- B. JavaScript
- C. AJAX
- D. All

Answer: D) All

7. In which form does Postback occur?

- A. Win Forms
- B. HTML Forms
- C. Web Forms
- D. All

Answer: C) Web Forms

8. What is the correct use of the web.config file?

- A. To store global information and variable definitions
- B. To configure the domain server
- C. To configure to domain client
- D. Store information about web browser

Answer: A) To store global information and variable definitions

9. Is ASP.NET web form supports an event-driven application model?

- A. True
- B. False

Answer: A) True

10. MVC stands for ____.

- A. Model Vocal Controller
- B. Model View Count
- C. Model View Controller
- D. Mode View Controller

Answer: C) Model View Controller

11. What namespace is used for ASP.NET Web Form by default?

- A. System.Web.Form
- B. System.Web.UI.Page
- C. System.Web.GUI.Page
- D. System.Web.UI.Form

Answer: D) System.Web.UI.Form

12. Which of the following attribute must be set on a validator control for the validation?

- A. ControlToValidate
- B. ValidateControl
- C. ValidateToBind
- D. ValidateBind

Answer: A) ControlToValidate

13. Can we style tree view, and menus with CSS?

- A. True
- B. False

Answer: A) True

14. The CSS stands for ____.

- A. Client Style Sheet
- B. Cascading Style Sheet
- C. Common Style Sheet
- D. Cascading Simple Sheet

Answer: B) Cascading Style Sheet

15. Which term is used for pages that depend on the Master page?

- A. Content Pages
- B. Master Pages
- C. Web Pages
- D. None of the above

Answer: A) Content Pages

16. Every Server control of ASP.NET must have an id?

- A. True
- B. False

Answer: A) True

17. Which file contains the Application_Start event?

- A. Global.asax
- B. Web.config
- C. Local.asax
- D. None

Answer: A) Global.asax

18. Which of the following is not an ASP.NET event?

- A. Init
- B. Import
- C. Load
- D. All

Answer: B) Import

19. What is the return type of IsPostBack property?

- A. Integer
- B. Boolean
- C. Float
- D. All

Answer: B) Boolean

20. Can we use ASPX pages in MVC?

- A. True
- B. False

Answer: A) True

21. Which of the following folder is used to store DLL files in the ASP.NET application?

- A. App_Code
- B. App_Data
- C. Bin
- D. App_Local

Answer: C) Bin

22. The ASP.NET developed by?

- A. Google
- B. Oracle
- C. Sun Microsystems
- D. Microsoft

Answer: D) Microsoft

23. Which of the following method is used to register client script using code dynamically?

- A. Page.ClientScript.RegisterClientScriptBlock
- B. RegisterScript
- C. Page.ClientScript
- D. None

Answer: A) Page.ClientScript.RegisterClientScriptBlock

24. Which is the first event triggered when a user requests an ASP.NET page?

- A. Load
- B. Init
- C. PreInit
- D. PreLoad

Answer: C) PreInit

25. Which of the following is not an ASP.NET component?

- A. LinkCounter
- B. Counter
- C. AdRotator
- D. File Access

Answer: A) LinkCounter

26. Which of the following Session Mode Serialization is not required to store the data?

- A. SQLServer
- B. StateServer
- C. InProc
- D. None

Answer: C) InProc

27. Which development model(s) is/are supported by ASP.Net?

- A. Asp.Net Web Forms
- B. Asp.Net MVC
- C. Asp.Net Web Pages
- D. Asp.Net API
- E. All of the above

Answer: E) All of the above

28. The SessionIDs are stored in ____ by ASP.Net?

- A. Cache
- B. Server
- C. Database
- D. Cookies

Answer: D) Cookies

29. Which is the correct basic syntax of Application directive?

- A. <%@ Application Language="C#" %>
- B. <!-- Application Language="C#" -->
- C. <%@ Application_DIR Language="C#" %>
- D. <%@ DIR @Application Language="C#" %>

Answer: A) <%@ Application Language="C#" %>

30. Which is the correct basic syntax of the Assembly directive?

- A. <%@ Assembly @ Name ="myassembly" %>
- B. <%@@ Assembly Name ="myassembly" %>
- C. <%@ Assembly Name ="C# myassembly" %>
- D. <%@ Assembly Name ="myassembly" %>

Answer: D) <%@ Assembly Name ="myassembly" %>

31. Which is the correct basic syntax of the Control directive?

- A. <%@ Control %>
- B. <%@ Control Language="C#" EnableViewState="false" %>
- C. <%@ Control Language="C#" %>
- D. None of the above

Answer: B) <%@ Control Language="C#" EnableViewState="false" %>

32. What is the file extension of Webservices in ASP.Net?

- A. .aspx
- B. .asp
- C. .asm
- D. .asmx

Answer: D) .asmx

33. Which protocol is used to call a web service?

- A. SOAP Protocol
- B. HTTP Protocol
- C. TCP Protocol
- D. FTP Protocol

Answer: B) HTTP Protocol

34. What is the parent class of all web server control in ASP.Net?

- A. System.Web.UI.Control
- B. System.Web.Control
- C. System.Web.UI.WebServer
- D. All of the above

Answer: A) System.Web.UI.Control

35. What is the difference between session object and application object in ASP.Net?

- A. The session object is used to maintain the session of each user while an application object is created while a user enters in the application
- B. Session objects are created on the server while application objects are created on the client side.
- C. Session objects are used to handle database communication while application objects are used to handle communication between two different domains.
- D. All of the above

Answer: A) The session object is used to maintain the session of each user while an application object is created while a user enters in the application

36. What is the difference between Debug and Trace class in ASP.Net?

- A. The Debug class is used to debug both builds and releases while the Trace class is used to debug the builds only
- B. Debug class is used in ASP core while Trace is used in ASP MVC
- C. The Debug class is used to debug the builds while the Trace class is used to debug both builds and releases
- D. All of the above

Answer: C) The Debug class is used to debug the builds while the Trace class is used to debug both builds and releases

37. In ____, a non-virtual method is called which is decided at a compile time.

- A. Late binding
- B. Early binding
- C. Lazy binding
- D. Global binding

Answer: B) Early binding

38. In ____, a virtual method is called which is decided at runtime.

- A. Late binding
- B. Early binding
- C. Lazy binding
- D. Global binding

Answer: A) Late binding

39. Which method is used to sign out from forms authentication?

- A. Authentication.SignOut()
- B. Forms.UI.SignOut()
- C. FormsAuthentication.LogOut()
- D. FormsAuthentication.SignOut()

Answer: D) FormsAuthentication.SignOut()

40. The ____ class is used to summarize the error messages from all validators on a Web page in a single location.

- A. ValidationSummary
- B. Validation
- C. ErrorSummary
- D. Debug

Answer: A) ValidationSummary

41. Which method is used in ASP.Net to preserve page and control values between round trips?

- A. Restore
- B. Modeling
- C. View State
- D. Model Preserve

Answer: C) View State

42. What is the default timeout for a cookie in ASP.Net?

- A. 10 Minutes
- B. 20 Minutes
- C. 30 Minutes
- D. 5 Minutes

Answer: C) 30 Minutes

43. What is the full form of SOAP in ASP.Net?

- A. Simple Object Access Protocol
- B. Simple Object Advanced Protocol
- C. Simple Object Access Property
- D. Simple Object Advanced Property

Answer: A) Simple Object Access Protocol

44. The Global.asax file is derived from the ____ class.

- A. System.UI
- B. SoapApplication
- C. Application
- D. HttpApplication

Answer: D) HttpApplication

45. Which is not a page event in ASP.Net?

- A. PreLoad
- B. Load
- C. LoadComplete
- D. UpLoad

Answer: D) UpLoad

46. How many navigation controls are in ASP.NET?

- A. 2
- B. 3
- C. 4
- D. 5

Answer: B) 3

47. Can an ASP.Net web application run without web.config file?

- A. Yes
- B. No

Answer: A) Yes

48. Which is/are the component(s) of ADO.NET?

- A. Dataset
- B. Data Reader
- C. Data Adaptor
- D. Command
- E. Connection
- F. All of the above

Answer: F) All of the above

49. In ____ page processing transfers from one page to the other page without making a round-trip back to the client's browser.

- A. Response.Redirect
- B. Server.Redirect
- C. Client.Transfer
- D. Server.Transfer

Answer: D) Server.Transfer

50. ____ is used to redirect the user's browser to another page or site.

- A. Response.Redirect
- B. Server.Redirect
- C. Client.Transfer
- D. Server.Transfer

Answer: A) Response.Redirect

51. Which is the correct syntax to add an event handler in ASP.Net?

- A. Attributes("Event","Javascript_Code();")
- B. Attributes.Add("Event","Javascript_Code();")
- C. Attributes.Handle("Event","Javascript_Code();")
- D. None of the above

Answer: B) Attributes.Add("Event","Javascript_Code();")

52. How many types of caching are there in ASP.Net?

- A. 2
- B. 3
- C. 4
- D. 6

Answer: B) 3

53. Which of the following statement are correct about Calendar control in ASP.NET?

1. It is an ASP.NET control, it shows the date in a calendar format.
2. It is an ASP.NET control, it shows date and time in UTC format only.
3. NET supports only one calendar control on one web form.
4. NET supports more than one calendar control on one web form.

- A. 1 and 3
- B. 2 and 4
- C. 1 and 4
- D. 2 and 3

Answer: C) 1 and 4

54. What is the correct syntax to create ASP.NET Calendar control?

- A. `< asp:Calendar ID="Calendar1" runat="server" SelectedDate="2022-09-04"> </asp:Calendar>`
- B. `< asp:Cal ID="Calendar1" runat="server" SelectedDate="2022-09-04" > </asp:Cal>`
- C. `< asp_net:Calendar ID="Calendar1" runat="server" SelectedDate="2022-09-04" > </asp_net:Calendar>`
- D. `< asp:Calendar CAL_ID="Calendar1" runat="server" SelectedDate="2022-09-04" > </asp:Calendar>`

Answer: A) `< asp:Calendar ID="Calendar1" runat="server" SelectedDate="2022-09-04"> </asp:Calendar>`

55. Using ASP.NET Calendar control, can a user move any day of any year?

- A. True
- B. False

Answer: A) True

56. Visual studio supports drag and drops for calendar control?

- A. True
- B. False

Answer: A) True

57. Which of the following property is used to apply the style to days in Calendar control?

- A. Style
- B. DayStyle
- C. StyleDay
- D. None of the above

Answer: B) DayStyle

58. Which of the following property is used to apply the style to the day header row in Calendar control?

- A. DayHeaderStyleRow
- B. DayHeaderStyle
- C. StyleHeaderDay
- D. None of the above

Answer: B) DayHeaderStyle

59. Can we apply the style to the month navigation button in Calendar control?

- A. True
- B. False

Answer: A) True

60. Which of the following event is triggered, when we make the selection in Calendar control?

- A. Selection Change
- B. Selection Changed
- C. OnSelection Changed
- D. None of the above

Answer: B) Selection Changed

61. Which of the following property is used to set custom text for the next month button in Calendar control?

- A. Month Text
- B. Next Month Text
- C. Next Text Month
- D. NM Text

Answer: B) Next Month Text

62. Which of the following property is not available for Calendar control in ASP.NET?

- A. Font
- B. Fore Color
- C. Title Format
- D. None of the above

Answer: D) None of the above

63. Which of the following statement is correct about CheckBox control in ASP.NET?

- A. It is an ASP.NET control that is used to select a choice from the group of choices.
- B. It is an ASP.NET control that is used to select multiple choices from a group of choices.
- C. NET does not support Checkbox control in ASP.NET.
- D. None of the above

Answer: B) It is an ASP.NET control that is used to select multiple choices from a group of choices.

64. Is CheckBox an ASP.NET Client-Side control?

- A. True
- B. False

Answer: B) False

65. Can we bind an event handler with CheckBox control in ASP.NET?

- A. True
- B. False

Answer: A) True

66. What is the correct syntax to create ASP.NET CheckBox control?

- A. `<asp:CB ID="CB1" runat="server" Text="BCA"/>`
- B. `<asp:Check-Box ID="CB1" runat="server" Text="BCA"/>`
- C. `<asp_net:CheckBox ID="CB1" runat="server" Text="BCA"/>`
- D. `<asp:CheckBox ID="CB1" runat="server" Text="BCA"/>`

Answer: D) `<asp:CheckBox ID="CB1" runat="server" Text="BCA"/>`

67. Which of the following tag is used for the HTML checkbox?

- A. <check>
- B. <checkbox>
- C. <input>
- D. None of the above

Answer: C) <input>

68. Which of the following property is used to set the check state for ASP.NET CheckBox control?

- A. Check
- B. Checked
- C. Check State
- D. None of the above

Answer: B) Checked

69. Which of the following property is used to set border width for ASP.NET CheckBox control?

- A. Width
- B. Border Width
- C. Width Border
- D. None of the above

Answer: B) Border Width

70. Can we apply ToolTip on CheckBox control?

- A. True
- B. False

Answer: A) True

71. Which of the following property is used to set the font for ASP.NET CheckBox control?

- A. SetFont
- B. Font
- C. FontSize
- D. None of the above

Answer: B) Font

72. Which of the following event is triggered on selection change for ASP.NET CheckBox control?

- A. On Selection Changed
- B. Check Changed
- C. On Check Change
- D. None of the above

Answer: B) Check Changed

73. Which of the following statement are correct about LinkButton control in ASP.NET?

- 1. The LinkButton and HyperLink both are the same controls.
 - 2. This control acts as a hyperlink, which is used to display a hyperlink-style button control.
 - 3. ASP.NET supports only LinkButton, it does not support Hyperlink.
 - 4. This is a client-side control used in HTML only.
- A. Only 1
 - B. Only 2
 - C. 1 and 4
 - D. 2 and 3

Answer: B) Only 2

74. What is the correct syntax to create ASP.NET LinkButton control?

- A. `<asp:LinkButton ID="ih" runat="server"/> My LinkButton </asp:LinkButton>`
- B. `<asp:Link ID="ih" runat="server"/> My LinkButton </asp:Link>`
- C. `<asp:LButton ID="ih" runat="server"/> My LinkButton </asp:LButton>`
- D. `<asp:Link_Button ID="ih" runat="server"/> My LinkButton </asp:Link_Button>`

Answer: A) `<asp:LinkButton ID="ih" runat="server"/> My LinkButton </asp:LinkButton>`

75. Can we implement an event handler for LinkButton?

- A. True
- B. False

Answer: A) True

76. Which of the following property is used to set CSS Class to LinkButton control?

- A. Set Css
- B. Css Class
- C. Css
- D. Class

Answer: B) Css Class

77. Which of the following property is used to enable or disable LinkButton control?

- A. Enable
- B. Is Enable
- C. Enabled
- D. Disabled

Answer: C) Enabled

78. The PostBackUrl property gets or sets the URL of the page to navigate to from the current page?

- A. True
- B. False

Answer: A) True

79. Which of the following property is not available for LinkButton control?

- A. Border Style
- B. Causes Validation
- C. Css Class
- D. None of the above

Answer: D) None of the above

80. Which of the following event handlers are available for LinkButton control?

1. On Click
 2. On Client Click
 3. On Command
 4. All the above
-
- A. 1 and 2
 - B. 1 and 3
 - C. 2 and 3
 - D. 4

Answer: D) 4

81. The LinkButton control makes a postback call to the server before redirecting the user to the target page.

- A. True
- B. False

Answer: A) True

81. The LinkButton control makes a postback call to the server before redirecting the user to the target page.

- A. True
- B. False

Answer: A) True

83. What is the correct syntax to create ASP.NET FileUpload control?

- A. <asp:FileUpload ID="FU1" runat="server"/>
- B. <asp:FU ID="FU1" runat="server"/>
- C. <asp:Upload ID="FU1" runat="server"/>
- D. <asp_net:Upload ID="FU1" runat="server"/>

Answer: A) <asp:FileUpload ID="FU1" runat="server"/>

84. Which of the following HTML tag is used to create file upload control in HTML?

- A. File
- B. Input
- C. Upload
- D. FP

Answer: B) Input

85. Can we upload multiple files to the server using FileUpload control?

- A. True
- B. False

Answer: A) True

86. Which of the following property is used to get the selected filename using FileUpload control?

- A. PostedFile.FileName
- B. FileName
- C. SelectedFile.FileName
- D. PostedFile

Answer: A) FileUpload1.PostedFile.FileName

87. Can we create a hyperlink using an HTML tag?

- A. True
- B. False

Answer: A) True

88. Which of the following property is used to allow multiple selections of files from FileUpload control?

- A. Access Multiple
- B. Upload Multiple
- C. Select Multiple
- D. Allow Multiple

Answer: D) Allow Multiple

89. Which of the following method is used to save the selected file using FileUpload control?

- A. PostedFile.Upload()
- B. PostedFile.SaveAs()
- C. PostedFile.SaveFile()
- D. None of the above

Answer: B) FileUpload1.PostedFile.SaveAs()

90. Can we change the Height and Weight of FileUpload control?

- A. True
- B. False

Answer: A) True

91. Which of the following property is used to get the length of the selected filename using FileUpload control?

- A. PostedFile.ContentLength
- B. PostedFile.Length
- C. PostedFile.FileLength
- D. None of the above

Answer: A) FileUpload1.PostedFile.ContentLength

92. Which of the following statement is correct about cookies in ASP.NET?

- A. Cookies are code snippets to read data from a web server.
- B. Cookies are code snippets to download data from a web server.
- C. Cookies are small pieces of data stored on the webserver
- D. Cookies are small pieces of data created by a web application while a user is browsing a website.

Answer: D) Cookies are small pieces of data created by a web application while a user is browsing a website.

93. Which of the following statement is the correct way to store cookies in ASP.NET?

- A. Using cookies collection
- B. Using HttpCookie class
- C. Both of the above
- D. None of the above

Answer: C) Both of the above

94. Cookies can store data up to?

- A. 10 KB
- B. 4 KB
- C. 1 MB
- D. 1 GB

Answer: B) 4 KB

95. Cookies are stored in?

- A. Main Memory
- B. Hard Drive
- C. Cache Memory
- D. CPU Registers

Answer: B) Hard Drive

96. Is the browser store cookies for different websites the user visited?

- A. True
- B. False

Answer: A) True

97. Which of the following property is used to set the cookie's expiration date and time in ASP.NET?

- A. Response.Cookies ["mycookie"].ExpiresDateTime
- B. Response.Cookies ["mycookie"].Expires
- C. Response.Cookies ["mycookie"].ExpiresTime
- D. Response.Cookies ["mycookie"].RemoveDateTime

Answer: B) Response.Cookies["mycookie"].Expires

98. Which of the following method is used to store a HttpCookie in ASP.NET?

- A. Response.Cookies.Add()
- B. Response.Cookies.SaveCookie()
- C. Response.Cookies.AddCookie()
- D. Response.Cookies.AddCookies()

Answer: A) Response.Cookies.Add()

99. Which of the following property is used to get cookies value in ASP.NET?

- A. Response.Cookies["cookieName"].GetValue
- B. Response.Cookies["cookieName"].CookieValue
- C. Response.Cookies["cookieName"].GetCookieValue
- D. Response.Cookies["cookieName"].Value

Answer: D) Response.Cookies["cookieName"].Value

100. Which of the following statement is correct about HyperLink control in ASP.NET?

- A. ASP.NET does not support HyperLink control.
- B. It is an ASP.NET control, that responds to a click event.
- C. It cannot be used to refer to a webpage on the server
- D. The hyperLink is also known as LinkButton in ASP.NET

Answer: B) It is an ASP.NET control, that responds to a click event.

101. What is the correct syntax to create ASP.NET hyperlink?

- A. `< asp:HyperLink ID="ih1" runat="server" Text="IncludeHelp" NavigateUrl="www.includehelp.com" > </asp:HyperLink>`
- B. `< asp.net:HyperLink ID="ih1" runat="server" Text="IncludeHelp" NavigateUrl="www.includehelp.com" > </asp.net:HyperLink>`
- C. `< asp_net:HyperLink ID="ih1" runat="server" Text="IncludeHelp" NavigateUrl="www.includehelp.com" > </asp_net:HyperLink>`
- D. None of the above

Answer: A) `< asp:HyperLink ID="ih1" runat="server" Text="IncludeHelp" NavigateUrl="www.includehelp.com" > </asp:HyperLink>`

102. Which of the following property is used to set the shortcut key for ASP.NET hyperlink control?

- A. Shortcut
- B. Shortcut Key
- C. Access Key
- D. Access Shortcut Key

Answer: C) Access Key

103. Which of the following is not a valid property for a hyperlink?

- A. Border Color
- B. Back Color
- C. Fore Color
- D. Background Color

Answer: D) Background Color

104. Which of the following statement is correct about ToolTip?

- A. It is used to implement a click event for ASP.NET control.
- B. It displays a text when the mouse is over the ASP.NET control.
- C. It is used to remove webpage cookies.
- D. None of the above

Answer: B) It displays a text when the mouse is over the ASP.NET control.

105. The ToolTip is?

- A. An event
- B. A property
- C. An event handler
- D. None of the above

Answer: B) A property

106. Which of the following property is used to set the URL for HyperLink control?

- A. Set URL
- B. URL
- C. Navigate Url
- D. None of the above

Answer: C) Navigate Url

107. Server renders ASP.NET Hyperlink to HTML hyperlink for the browser?

- A. True
- B. False

Answer: A) True

108. Which of the following HTML tag is used for a hyperlink?

- A. <hyper>
- B. <a>
- C. <h>
- D. <hr>

Answer: B) <a>

109. Which of the following statement is correct about RadioButton control in ASP.NET?

- A. It is an ASP.NET control that is used to select a choice from the group of choices.
- B. It is an ASP.NET control that is used to select multiple choices from a group of choices.
- C. ASP.NET does not support RadioButton control in ASP.NET.
- D. None of the above

Answer: A) It is an ASP.NET control that is used to select a choice from the group of choices.

110. Can we create RadioButton control using drag and drop, in Visual Studio?

- A. True
- B. False

Answer: A) True

111. What is the correct syntax to create ASP.NET RadioButton control?

- A. `<asp:RB ID="RB1" runat="server" Text="Male" GroupName="gender"/>`
- B. `<asp:RD ID="RB1" runat="server" Text="Male" GroupName="gender"/>`
- C. `<asp:RadioButton ID="RB1" runat="server" Text="Male" GroupName="gender"/>`
- D. None of the above

Answer: C) `<asp:RadioButton ID="RB1" runat="server" Text="Male" GroupName="gender"/>`

112. Can we create RadioButton using an HTML tag?

- A. True
- B. False

Answer: A) True

113. Which of the following property is used to set tab order for ASP.NET RadioButton control?

- A. Tab Order
- B. Tab Index
- C. Index
- D. Tab

Answer: B) Tab Index

114. Which of the following property is used to set visibility for ASP.NET RadioButton control?

- A. Visible
- B. Set Visibility
- C. Visibility
- D. None

Answer: A) Visible

115. Which of the following property is used to set the group name for ASP.NET RadioButton control?

- A. Group
- B. Group Name
- C. G Name
- D. None

Answer: B) Group Name

116. Server renders ASP.NET RadioButon to HTML RadioButon for the browser?

- A. True
- B. False

Answer: A) True

117. Which of the following HTML tag is used for the radio button?

- A. <radio>
- B. <rd>
- C. <input>
- D. <radio button>

Answer: C) <input>

118. Can we implement a click event for RadioButton in ASP.NET?

- A. True
- B. False

Answer: A) True

119. Which of the following property is used to set the keyboard shortcut key for Label control?

- A. Shortcut
- B. Access Key
- C. Key
- D. Shortcut Key

Answer: B) Access Key

120. Which of the following property is used to set tab index for web controls?

- A. Index
- B. Tab Index
- C. Tab
- D. None of the above

Answer: B) Tab Index

121. Which of the following property is used to set background color for a Label control?

- A. Back Color
- B. Background Color
- C. Bg Color
- D. None of the above

Answer: A) Back Color

122. What is ToolTip?

- A. It is an application event
- B. It is a property
- C. It is a method
- D. None of the above

Answer: B) It is a property

123. Which of the following property is used to set password characters for a Textbox control?

- A. Pass Char
- B. P Char
- C. Password Char
- D. None of the above

Answer: C) Password Char

124. How can we set the size for a Textbox control?

- A. Using Size property
- B. Using Length Property
- C. Using MaxLength Property
- D. None of the above

Answer: C) Using MaxLength Property

125. The AutoPostBack is?

- A. A property
- B. An Event
- C. A Method
- D. None of the above

Answer: A) A property

126. Which of the following are textbox events in ASP.NET?

- I. Key Press
- II. Text Changed
- III. Post Back
- IV. Text Modified

- A. 1 and 3
- B. 1 and 2
- C. 1 and 4
- D. 3 and 4

Answer: B) 1 and 2

127. Which of the following syntax is correct to create a textbox in ASP.NET?

- A. `<asp:TextBox ID="txtname" runat="server"> </asp:TextBox>`
- B. `<TextBox ID="txtname" runat="server"> </TextBox>`
- C. `<asp.net:TextBox ID="txtname" runat="server"> <asp.net/TextBox>`
- D. `<asp-TextBox ID="txtname" runat="server"> <asp-TextBox>`

Answer: A) `<asp:TextBox ID="txtname" runat="server"> </asp:TextBox>`

128. Which of the following is the correct syntax for an event handler for a Button control in ASP.NET?

- A. `protected void MyButton_Click(object sender, EventArgs e){ }`
- B. `protected void MyButton_Click(EventArgs e){ }`
- C. `protected void MyButton_Click(object sender){ }`
- D. `protected void MyButton_Click(){ }`

Answer: A) `protected void MyButton_Click(object sender, EventArgs e){ }`

129. Can we validate textbox data using validation controls?

- A. True
- B. False

Answer: A) True

130. Webforms are made up using?

- A. ASPX File
- B. Code behind file (.cs, .vb etc)
- C. Both of the above
- D. None of the above

Answer: C) Both of the above

131. IIS stands for?

- A. Internet Information Server
- B. Internet Information Services
- C. Inter Information Server
- D. Interactive Information Services

Answer: B) Internet Information Services

132. IIS is a?

- A. Web Browser
- B. Web crawler
- C. Web Server
- D. None of the above

Answer: C) Web Server

133. Which of the following are server controls in ASP.NET?

- i. Button
- ii. Textbox
- iii. ImageButton
- iv. LinkButton

- A. 1 and 2
- B. 1, 2, and 3
- C. Only 1
- D. All

Answer: D) All

134. Which of the following control works as a container?

- A. Image Button
- B. Data Grid
- C. Panel
- D. Table

Answer: C) Panel

135. Which of the following statement is correct about AdRotator control?

- A. It is not an ASP.NET web form control
- B. It is a client-side control
- C. It is used to specify a list of ads to display
- D. It is used to display only hyperlinks

Answer: C) It is used to specify a list of ads to display

136. Which of the following control is used to create a group of checkboxes?

- A. Check Box
- B. Check Box List
- C. Check Box Group
- D. Check Box Group List

Answer: B) Check Box List

137. Which of the following controls has an 'ItemDataBound' Event?

- A. Data List
- B. Data Grid
- C. Repeater
- D. All

Answer: D) All

138. Which of the following are the correct application events for DataList control?

- i. Cancel Command
 - ii. Edit Command
 - iii. Delete Command
 - iv. Update Command
-
- A. 1 and 2
 - B. 1, 3, 4
 - C. All
 - D. None

Answer: C) All

139. Can we use the Click event on ImageButton similar to Button control?

- A. True
- B. False

Answer: A) True

140. Literal is a?

- A. Server-side control
- B. Application Event
- C. Client-side control
- D. None of the above

Answer: A) Server-side control

141. Which of the following is not HTML control?

- A. Text Field
- B. Text Area
- C. Place Holder
- D. Reset Button

Answer: C) Place Holder

142. Which of the following tag is used to display a horizontal line?

- A. <HR>
- B. <HL>
- C. <HB>
- D. None

Answer: C) <HB>

143. HTML controls are?

- A. Server-side controls
- B. Client-side controls
- C. Both
- D. None

Answer: B) Client-side controls

144. What is the full form of HR of <HR> tag?

- A. Horizontal Rule
- B. Horizontal Relay
- C. Horizon Relay
- D. Horizon Rule

Answer: A) Horizontal Rule

145. Which of the following statement is correct about 'Text Area' control?

- A. It is used for multiline input on an HTML Form
- B. It is used for single-line input on an HTML Form
- C. It is not an HTML control
- D. It is an ASP.NET Server Control

Answer: A) It is used for multiline input on an HTML Form

146. Which of the following control is used to resets all other HTML form elements on a form to a default value?

- A. Clear Button
- B. Default Button
- C. Reset Button
- D. Set Button

Answer: C) Reset Button

147. Can we display a picture using HTML control?

- A. True
- B. False

Answer: A) True

148. Which of the following statement are correct application events for Calendar control?

- i. Selection Changed
- ii. Visible Month Changed
- iii. Day Render
- iv. CalEvent

- A. 1, 2
- B. 1, 2, 3
- C. 1, 3
- D. 1, 4

Answer: B) 1, 2, 3

149. Is LinkButton control used to create a button that looks similar to the hyperlink?

- A. True
- B. False

Answer: A) True

SET-2

1) What is the name of the Page object's property that determines if a Web page is being requested without data being submitted to server?

- a. IsCallback
- b. IsReusable
- c. IsValid
- d. IsPostBack

ANSWER: IsPostBack

2) _____ is the DataType return in IsPostBack property.

- a. bit
- b. boolean
- c. int
- d. object
- e. string

ANSWER: boolean

3) When does Garbage collector run?

- a. When application is running low of memory
- b. It runs random
- c. When application is running for more than 15 minutes
- d. None of the above

4) Which is the first event of ASP.NET page, when user requests a web page?

- a. PreLoad
- b. Load
- c. Preinit
- d. Init

ANSWER: Preinit

5) What happens in the Init event of a page?

- a. ViewState is loaded on the page.
- b. Each child control of the page is initialized to its design time values.
- c. HTML is rendered.
- d. None of the above.

ANSWER: Each child control of the page is initialized to its design time values.

6) Which one of the following has a parameter called as “preserveForm”?

- a. Server.transfer
- b. Response.redirect

ANSWER: Server.transfer

7) Which validation control in ASP.NET can be used to determine if data that is entered into a TextBox control is of type Currency?

- a. ValidationSummary
- b. CompareValidator
- c. RequiredFieldValidator
- d. None of the above.

ANSWER: CompareValidator

8) If we want to add graphics using asp.net which of the following web control will you use?

- a. Link Button
- b. AdRotator
- c. Grid View
- d. Layout

ANSWER: AdRotator

9) What is/are true about master page? Choose the correct option.

- a. You can add more than one master page in a website.
- b. Master page can be nested.
- c. ContentPlaceHolder control is required on a content page.
- d. Both A and B option are correct.

ANSWER: Both A and B option are correct.

10) Which of the following statements about referencing master page methods and properties is true?

- a. Content pages can reference controls in the master page.
- b. Content pages can reference public properties in the master page.
- c. Content pages can reference public methods in the master page.
- d. All of the above.

ANSWER: All of the above.

11) How many types of authentication ASP.NET supports?

- a. Windows Authentication.
- b. .NET Passport Authentication.
- c. Forms Authentication.
- d. All of the above.

ANSWER: All of the above.

12) Which of the following is the default authentication mode for IIS?

- a. Anonymous
- b. Windows
- c. Basic Authentication
- d. None

ANSWER: Anonymous

13) You use the ASP.NET Web Site Administration Tool to configure ASP.NET membership with forms authentication. What should you name your login form so that you do not have to modify the Web.config file?

- a. Login.aspx
- b. LoginPage.aspx
- c. Default.aspx
- d. Auth.aspx

ANSWER: Login.aspx

14) What are the types of cookies?

- a. Session cookies
- b. Persistent cookies.
- c. Dummy cookies.
- d. Option A and B are correct.

ANSWER: Option A and B are correct.

15) Default Session data is stored in ASP.Net.

- a. StateServer
- b. Session Object
- c. InProcess
- d. all of the above

ANSWER: InProcess

16) Which session modes stores session Information in Current Application Domain?

- a. InProc
- b. StateServer
- c. SQLServer
- d. Off

ANSWER: InProc

17) Choose the correct option about the Integrated Security property of connection object.

- a. If Integrated Security=false then User ID, and Password must be specified in the connection string.
- b. If Integrated Security=true then current Windows account credentials are used for authentication.
- c. Both A and B option are correct.
- d. None of the above.

ANSWER: Both A and B option are correct.

18) In which file you should write the connection string, so you can access it in all the web page for same application?

- a. In App_Data folder.
- b. In Web.config file.
- c. In MasterPage file.
- d. None of the above.

ANSWER: In Web.config file.

19) How will you specifying the Cache Location?

- a. You can use browser settings to specify where a page is cached.
- b. You can use the Location attribute of the < %@ OutputCache %> directive to specify where a page is cached.
- c. You can use the Location attribute in QueryString to specify where a page is cached.
- d. None of the above.

ANSWER: You can use the Location attribute of the < %@ OutputCache %> directive to specify where a page is cached.

20) Which of these data source controls do not implement Caching?

- a. LinqDataSource
- b. ObjectDataSource
- c. SqlDataSource
- d. XmlDataSource

ANSWER: LinqDataSource

SET-3

1) You want to make a configuration setting change that will affect only the current Web application. Which file will you change?

- a. Global.asax
- b. Web.config in the root of the Web application
- c. Machine.config
- d. All of the above

ANSWER: Web.config in the root of the Web application

2) _____ is the first method that is fired during the page load.

- a. PreRender()
- b. Load()
- c. Unload()
- d. Init()

ANSWER: Init()

3) What is a web application running on multiple servers called?

- a. HTTP
- b. Web Servers
- c. Web Page
- d. Web farm

ANSWER: Web farm

4) What property do you modify on a server control to minimize the size of the ViewState data?

- a. ViewState="true"
- b. Set EnableViewState to false.
- c. Set EnableViewState to true.
- d. None of the above

ANSWER: Set EnableViewState to false.

5) A web page has lots of input data, and you want the data input to be spread across multiple screens. What is the best control to use to implement this solution on a single Web page?

- a. ImageMap
- b. Panel
- c. Wizard
- d. None of the above

ANSWER: Wizard

6) ASP.NET validation controls works (handle validation) at

- a. Client side only.
- b. Server side only.
- c. Both client side and server side.
- d. None of the above.

ANSWER: Both client side and server side.

7) There is a button on page name cancel and it should bypass validation when cancel button is clicked. What will you do?

- a. set CausesValidation = false.
- b. set RemoveValidation=true
- c. set cancel=true
- d. None of the above.

ANSWER: set CausesValidation = false.

8) Which of the following is a valid skin code inside a skin file?

- a. < asp:TextBox BackColor="Yellow" BorderStyle="Dotted" ID="colorTxt" Runat="Server"/>
- b. < asp:TextBox BackColor="Yellow" BorderStyle="Dotted" Runat="Server" />
- c. < asp:TextBox BackColor="Yellow" BorderStyle="Dotted" ID="colorTxt" />
- d. None of the above.

ANSWER: < asp:TextBox BackColor="Yellow" BorderStyle="Dotted" Runat="Server" />

9) What is/are the advantages of master page?

- a. It helps to display common content in multiple pages.
- b. They allow you to centralize the common functionality of your pages so that you can make updates in just one place.
- c. It helps to create a common page layout.
- d. All of the above.

ANSWER: All of the above.

10) How to implement authentication via web.config?

- a. Include the authentication element.
- b. Include the authorization element.
- c. Include the identity element.
- d. Include the deny element.

ANSWER: Include the authorization element.

11) Windows-Based Authentication is well suited for.

- a. Intranet environment.
- b. Public web site.
- c. Desktop application.
- d. None of the above.

ANSWER: Intranet environment.

12) If any user has disabled cookies in their browsers, what can you do to enable them to use forms authentication?

- a. Set BowserCookieEnabled=true;
- b. Set cookieless=true;
- c. Use the AutoDetect setting of the cookieless attribute.
- d. None of the above.

ANSWER: Use the AutoDetect setting of the cookieless attribute.

13) What ASP.NET object encapsulates the state of the client and the browser?

- a. Application Object
- b. Session Object
- c. Response Object
- d. Request Object

ANSWER: Session Object

14) In ASP.NET what are the different types of session mode available?

- a. InProc
- b. StateServer
- c. SQLServer
- d. All of the above

ANSWER: All of the above

15) To kill a users session explicitly which of the following will you use?

- a. Session.Close()
- b. Session.End()
- c. Session.Abondon()
- d. Session.Discard()

ANSWER: Session.Abondon()

16) Which control is required of every AJAX page to manage the JavaScript files sent to the client and the communication between client and server?

- a. UpdatePanel
- b. ScriptManager
- c. AsyncPostBackTrigger
- d. None of the above.

ANSWER: ScriptManager

17) What property and method of the Page object do you use to register client script dynamically from code?

- a. ScriptManager control is used to dynamically register client script from code.
- b. The Page.ClientScript.RegisterClientScriptBlock is used to dynamically register client script from code.
- c. ScriptManagerProxy control is used to dynamically register client script from code.
- d. None of the above.

ANSWER: ScriptManagerProxy control is used to dynamically register client script from code.

18) Which ado.net class provide disconnected environment?

- a. DataReader
- b. DataSet
- c. Command
- d. None of the above.

ANSWER: DataSet

19) What data type is returned when calling the ExecuteScalar method of a command object?

- a. System.Int32
- b. Object
- c. No of effected records.
- d. None of the above.

ANSWER: Object

20) How many types of Cache Dependencies are available in ASP.NET?

- a. File based dependencies
- b. Key-based dependencies
- c. Time-based dependencies
- d. All of the above

ANSWER: All of the above

SET-4

1) In order to prevent a browser from caching a page which of these statements should be written?

- a. Response.Cache.SetNoStore();
- b. Response.Cache.SetNoServerCaching();
- c. Response.Cache.SetNoCaching();
- d. None of these

ANSWER: Response.Cache.SetNoStore();

2) You need to programmatically configure page output caching. Which object would you use?

- a. Request
- b. Response
- c. Application
- d. Server

ANSWER: Response

3) What are the Command Object Methods?

- a. ExecuteNonQuery
- b. ExecuteReader
- c. ExecuteScalar
- d. All of the above.

ANSWER: All of the above.

4) To perform asynchronous data access, what must be added to the connection string?

- a. BeginExecute=true
- b. MultiThreaded=true
- c. MultipleActiveResultSets=true
- d. Asynchronous=true

ANSWER: Asynchronous=true

5) A Master Page contains a ScriptManager control and a user wants the AJAX functionality on content page then which control is necessary on content page.

- a. AsyncPostBackTrigger
- b. ScriptManager
- c. ScriptManagerProxy
- d. None of the above.

ANSWER: ScriptManagerProxy

6) Which of the following is not a member of ADODBCommand object?

- a. ExecuteScalar
- b. ExecuteStream
- c. Open
- d. ExecuteReader

ANSWER: Open

7) From the following which is not a valid state management object?

- a. Querystate
- b. Cookies
- c. Application state
- d. Hidden form fields

ANSWER: Querystate

8) Where do we include the user lists for Form authentication?

- a. < credential>
- b. < authorization>
- c. < Identity>
- d. < authentication>

ANSWER: < credential>

9) By default, a .Net web site is configured with which of the following authentication types?

- a. Anonymous
- b. Basic
- c. Digest
- d. Integrated Windows authentication
- e. a and d

ANSWER: a and d

10) Validation events of server controls occur before the page is post back to the server.

- a. True
- b. False

ANSWER: True

11) _____ is a property common in every validation control.

- a. ValidationExpression
- b. InitialValue
- c. ValueToCompare
- d. ControlToCompare
- e. ControlToValidate

ANSWER: ControlToValidate

12) Using which type of stylesheet we can change the style of an element in the entire website?

- a. Internal Stylesheet
- b. External Stylesheet
- c. Inline stylesheet
- d. None of above

ANSWER: External Stylesheet

13) Which of the following is the way to monitor the web application?

- a. MMC Event viewers
- b. Performance logs
- c. Alerts Snap-ins
- d. ALL

ANSWER: ALL

14) _____ file apply settings to all ASP.NET applications

- a. web.config
- b. machine.config
- c. global.asax file
- d. application object

ANSWER: machine.config

15) Which type of processing model does asp.net stimulate?

- a. Static
- b. Linear
- c. Bottom up
- d. Event-driven

ANSWER: Event-driven

SET-5

1) Which protocol is used for requesting a web page in ASP.NET from the Web Server?

- a. HTTP
- b. TCP
- c. SMTP
- d. None of the above.

ANSWER: HTTP

2) What are the types of cookies?

- a. Session cookies
- b. Persistent cookies
- c. Dummy cookies
- d. Option A and B are correct

ANSWER: Option A and B are correct

3) What is the fully qualified name of the base class of all server controls?

- a. System.Web.UI.Control
- b. System.Web.UI
- c. System.Control
- d. All of the above

ANSWER: System.Web.UI.Control

4) Which file you should write for the connection string, so that you can access it in all the web pages for the same application?

- a. In App_Data folder
- b. In Web.config file
- c. In MasterPage file
- d. None of the above

ANSWER: In Web.config file

5) Which of the following control provides a link for unauthenticated users to log on?

- a. Login
- b. LoginView
- c. LoginStatus
- d. LoginName

ANSWER: LoginStatus

6) What are the advantages of AJAX?

- a. AJAX is a platform-independent technology
- b. It provides partial-page updates
- c. Improved performance
- d. All of the above

ANSWER: All of the above

7) If you want to cache the page according to the browser, then what will you do?

a.

Write the given below code in aspx page.

```
<%@ OutputCache Duration="500" VaryByParam="none" VaryByCustom="browser" %>
```

b.

Write the given below code in aspx page.

```
<%@ OutputCache Duration="500" VaryByParam="none" VaryByHeader="browser" %>
```

c.

Write the given below code in aspx page.

```
<%@ OutputCache Duration="500" VaryByParam=" browser" VaryByCustom="none" %>
```

d. None of the above.

ANSWER:

Write the given below code in aspx page.

```
<%@ OutputCache Duration="500" VaryByParam="none"
```

```
VaryByCustom="browser" %>
```

8) You need to allow users to choose their own themes. In which page event will you write the user-selected theme?

a. Page_Load

b. Page_Render

c. Page_PreInit

d. Page_PreRender

ANSWER: Page_PreInit

9) Client-side validation is turned on by default. If you want that particular validation control should not validate at client side, what will you do?

a. Set the EnableClientScript property to false

b. Set the validate property to false

c. Set the EnableClientScript property to true

d. Set the Page.IsValid property to false

ANSWER: Set the EnableClientScript property to false

10) A button control is located outside the UpdatePanel control. You need that a given button control outside of the UpdatePanel should cause the UpdatePanel to execute an update with partial update. What will you do to achieve this task?

a.

- Add aPostBackTrigger control to the Triggers section of the UpdatePanel.

- Set the ControlID attribute of the AsyncPostBackTrigger control to the ID of the Button control.

b.

- Add a Trigger control to the Triggers section of the UpdatePanel.

- Set the ControlID attribute of the AsyncPostBackTrigger control to the ID of the Button control.

c.

- Add an AsyncPostBackTrigger control to the Triggers section of the UpdatePanel.

- Set the ControlID attribute of the AsyncPostBackTrigger control to the ID of the Button control.

d. None of the above.

ANSWER:

- Add an AsyncPostBackTrigger control to the Triggers section of the UpdatePanel.

- Set the ControlID attribute of the AsyncPostBackTrigger control to the ID of the Button control.

11) Choose the correct option about the Integrated Security property of connection object.

- a. If Integrated Security=false then User ID, and Password must be specified in the connection string.
- b. If Integrated Security=true then current Windows account credentials are used for authentication.
- c. Both A and B option are correct.
- d. None of the above.

ANSWER: Both A and B option are correct.

12) You are creating an ASP.NET application for CareerRide. The company uses Microsoft Windows authentication. All users are in the CareerRide domain.

You want to configure the application to use the following authorization rules:

- 1. Anonymous users must not be allowed to access the application.**
- 2. All employees except Raj and Shiva must be allowed to access the application.**

Which code you will apply to configure the application ?

a.

```
<authorization>
<deny users=" CareerRide \Raj, CareerRide \Shiva">
<allow users="*">
<deny users="?">
</authorization>
```

b.

```
<authorization>
<allow users="*">
<deny users=" CareerRide \Raj, CareerRide \Shiva">
<deny users="?">
</authorization>
```

c.

```
<authorization>
<deny users=" CareerRide \Raj, CareerRide \Shiva">
<deny users="?">
<allow users="*">
</authorization>
```

d.

```
<authorization>
<allow users=" CareerRide \Raj, CareerRide \Shiva">
<allow users="*">
</authorization>
```

ANSWER:

```
<authorization>
<deny users=" CareerRide \Raj, CareerRide \Shiva">
<deny users="?">
<allow users="*">
</authorization>
```

13) Which is the first event of ASP.NET page, when user requests a web page ?

- a. PreLoad
- b. Load
- c. Preinit
- d. Init

ANSWER: Preinit

14) There is a button on page name cancel and it should bypass validation when cancel button is clicked. What will you do?

- a. set CausesValidation = false
- b. set RemoveValidation=true
- c. set cancel=true
- d. None of the above

ANSWER: set CausesValidation = false

15) What is the name of the Page object's property that determines if a Web page is being requested without data being submitted to server?

- a. IsCallback
- b. IsReusable
- c. IsValid
- d. IsPostBack

ANSWER: IsPostBack

16) Which one of the following HTTP verbs indicates that you are creating and writing a file on the Web server?

- a. POST
- b. SET
- c. GET
- d. PUT

ANSWER: PUT

17) What is/are the advantages of master page?

- a. It helps to display common content in multiple pages.
- b. They allow you to centralize the common functionality of your pages so that you can make updates in just one place.
- c. It helps to create a common page layout.
- d. All of the above.

ANSWER: All of the above.

18) How will you specifying the Cache Location?

- a. You can use browser settings to specify where a page is cached.
- b. You can use the Location attribute of the <%@ OutputCache %> directive to specify where a page is cached.
- c. You can use the Location attribute in QueryString to specify where a page is cached.
- d. None of the above.

ANSWER: You can use the Location attribute of the <%@ OutputCache %>

directive to specify where a page is cached.

19) How many types of authentication ASP.NET supports?

- a. Windows Authentication.
- b. .NET Passport Authentication.
- c. Forms Authentication.
- d. All of the above.

ANSWER: All of the above.

20) Which attribute is necessary for HTML control to work as a HTML server control?

- a. runat="server"
- b. runat="web-server"
- c. ID="server"
- d. ID="web-server"

ANSWER: runat="server"

21) MARS feature is disabled by default. What action you will perform in connection string to enable this feature?

- a. Set MultipleActiveResultSets=True"
- b. Set MultipleResultSets=true"
- c. Set ResultSets=True"
- d. None of the above.

ANSWER: Set MultipleActiveResultSets=True"

22) Which control can be used to update only the portion of the page?

- a. UpdatePanel
- b. ScriptManager
- c. AsyncPostBackTrigger
- d. None of the above.

ANSWER: UpdatePanel

23) Which is the mandatory property for all validation controls?

- a. ControlToValidate
- b. Message
- c. EnableClientScript
- d. EnableServerScript

ANSWER: ControlToValidate

24) Which object works on client side in state management system?

- a. ViewState
- b. cookies
- c. Query strings
- d. All of the above

ANSWER: All of the above

25) How many types of caching ASP.NET supports?

- a. Page Output Caching
- b. Partial Page Caching
- c. Data Caching
- d. DataSource Caching
- e. All of the above.

ANSWER: All of the above.

SET-6

1) If a user wants to create controls at runtime which event should be used to write code?

- a. PreLoad
- b. Load
- c. Init
- d. PreInit

ANSWER: PreInit

2) How will you add a TextBox control at runtime on the form? Choose the correct one.

- a. `TextBox obj = new TextBox();`
`obj.ID = "txtUserName";`
`form1.Controls.Add(obj);`
- b. `form1.Controls.Add(TextBox);`
- c. `this.FindControl.add(TextBox);`
- d. None of the above.

ANSWER: `TextBox obj = new TextBox();`

`obj.ID = "txtUserName";`

`form1.Controls.Add(obj);`

3) You are creating an ASP.NET application for company CareerRide. You use form based authentication to validate users. You need to prevent unauthenticated users from accessing the application. What should you do?

- a. In the authorization section of the Web.config file, set the users attribute of the deny element to “?”
- b. Set In the authorization section of the Web.config file, set the users attribute of the deny element to “*”
- c. In the authorization section of the Machine.config file, set the users attribute to the allow element to “?”.
- d. None of the above.

ANSWER: In the authorization section of the Web.config file, set the users attribute of the deny element to “?”

4) If any user has disabled cookies in their browsers, what can you do to enable them to use forms authentication?

- a. `Set BowserCookieEnabled=true;`
- b. `Set cookieless=true;`
- c. Use the AutoDetect setting of the cookieless attribute.
- d. None of the above.

ANSWER: Use the AutoDetect setting of the cookieless attribute.

5) What is the use of VaryByParam attribute in OutputCache directive?

- a. You can neglect VaryByParam attribute while using Page output caching.
- b. The VaryByParam attribute determines which versions of the page output are actually cached.
- c. The VaryByParam attribute determines which web page is cached in database.
- d. None of the above.

ANSWER: The VaryByParam attribute determines which versions of the page output are actually cached.

6) You need to programmatically configure page output caching. Which object would you use?

- a. Request
- b. Response
- c. Application
- d. Server

ANSWER: Response

7) Which control is required inside a content page to reference ContentPlaceHolder control inside the master page?

- a. Content control on a content page.
- b. ContentPlaceHolder on a content page.
- c. Placeholder control is required on content page.
- d. None of the above.

ANSWER: Content control on a content page.

8) At which level Theme can be applied?

- a. Page level
- b. Site level (through the Web.config file)
- c. Individual control level
- d. All of the above.

ANSWER: All of the above.

9) When user request a web page by entering Uniform Resource Locator (URL) then which method /verb/command is used in ASP.NET?

- a. POST
- b. SET
- c. GET
- d. All of the above.

ANSWER: GET

10) HTTP messages are typically sent between the Web server and Web browser using which Port number?

- a. 70
- b. 80
- c. 400
- d. 410

ANSWER: 80

11) What type of data can Cookies store?

- a. String
- b. DateTime
- c. System.Int32
- d. None of the above.

ANSWER: String

12) What are the different types of Session Mode in ASP.NET?

- a. InProc
- b. StateServer
- c. SQLServer
- d. All of the above

ANSWER: All of the above

13) Which validation control in ASP.NET can be used to determine if the data is entered into a TextBox control is of type Currency?

- a. ValidationSummary
- b. CompareValidator
- c. RequiredFieldValidator
- d. None of the above.

ANSWER: CompareValidator

14) CompareValidator control can be used for performing which task?

- a. To perform a data type check.
- b. To compare the value entered into a form field against a fixed value.
- c. To compare the value of one form field against another.
- d. All of the above.

ANSWER: All of the above.

15) Match the following List 1 to List 2

- a. Client-side navigation ----- i. Server.Transfer
- b. Cross-page posting ----- ii. Response.Redirect
- c. Client-side browser redirects ----- iii. PostBackUrl
- d. Server-side transfer ----- iv. HyperLink

- a. a-iv, b-iii, c-ii, d-i
- b. a-ii, b-iv, c-i, d-iii
- c. a-ii, b-i, c-iii, d-iv
- d. a-ii, b-iv, c-iii, d-i

ANSWER: a-iv, b-iii, c-ii, d-i

16) You want to enable Page Output Caching in ASP.NET. What code you will write in ASPX page.

- a. <%@ OutputCache Duration="30" VaryByParam="none" %>
- b. <%@ OutputCache VaryByParam="none" %>

- c. <%@ OutputCache Duration="30" %>
- d. None of the above.

ANSWER: <%@ OutputCache Duration="30" VaryByParam="none" %>

17) How many types of Cache Dependencies are available in ASP.NET?

- a. File based dependencies
- b. Key-based dependencies
- c. Time-based dependencies
- d. All of the above

ANSWER: All of the above

18) Choose the correct option according to given statements.

Statement 1: Authentication is the process that determines the identity of a user.

Statement 2: Authorization is the process of determining whether a user is permitted to access to any part of an application, or any particular resource.

Statement 3: Authorization is the process that determines the identity of a user.

Statement 4: Authentication is the process of determining whether a user is permitted access to any part of an application, or any particular resource.

- a. Statement 1 and Statement 2 are correct.
- b. Statement 3 and Statement 4 are correct.
- c. Statement 1 and Statement 3 are correct.
- d. Statement 2 and Statement 4 are correct.

ANSWER: Statement 1 and Statement 2 are correct.

19) You use the ASP.NET Web Site Administration Tool to configure ASP.NET membership with forms authentication. What should you name your login form so that you do not have to modify the Web.config file?

- a. Login.aspx
- b. LoginPage.aspx
- c. Default.aspx
- d. Auth.aspx

ANSWER: Login.aspx

20) What are the three main objects of DataSet?

- a. DataTable, DataColumn, and type.
- b. DataTable, DataRelation, and DataAdapter.
- c. DataTable, DataColumn, and DataRelation.
- d. DataReader, DataAdapter, and Command.

ANSWER: DataTable, DataColumn, and DataRelation.

21) On what object would you set the properties to create a primary key for a DataTable?

- a. DataRelation
- b. DataColumn
- c. DataSet
- d. DataTable

ANSWER: DataSet

22) How many 'ScriptManager' control can be added on a ASP.NET web page?

- a. Only One
- b. More than One
- c. Only Two
- d. None of the above.

ANSWER: Only One

23) Which property and method of the Page object do you use to register client script dynamically from code?

- a. ScriptManager control is used to dynamically register client script from code.
- b. The Page.ClientScript.RegisterClientScriptBlock is used to dynamically register client script from code.
- c. ScriptManagerProxy control is used to dynamically register client script from code.
- d. None of the above.

ANSWER: The Page.ClientScript.RegisterClientScriptBlock is used to dynamically register client script from code.

24) Match the following List 1 to List 2

- a. Web Form ----- i. .ascx
- b. Web User Control ----- ii. .asmx
- c. Web Service ----- iii. .aspx

- a. a-iii, b-i, c-ii
- b. a-ii , b-i, c-iii
- c. a-i, b-ii, c-iii

ANSWER: a-iii, b-i, c-ii

25) To create your application on a remote server which option you will choose in ASP.NET?

- a. File System
- b. FTP
- c. HTTPS
- d. None of the above.

ANSWER: FTP

SET-7

1) What is Multiple Active Result Sets (MARS)?

- a. It allows execution of multiple batches against Database on a single connection.
- b. New feature of SQL SERVER 2005. Previous version of SQL Server does not support this feature.
- c. Option A and B are correct.
- d. None of the above.

ANSWER: Option A and B are correct.

2) Which Data Provider gives the maximum performance when connect to SQL Server?

- a. The SqlClient data provider.
- b. The OLE DB data provider.
- c. The Oracle data provider
- d. All of the above.

ANSWER: The SqlClient data provider.

3) What property do you modify on a server control to minimize the size of the ViewState data?

- a. ViewState="true"
- b. Set EnableViewState to false
- c. Set EnableViewState to true
- d. None of the above

ANSWER: Set EnableViewState to false

4) What are the client-side state management options that ASP.NET supports?

- a. Application
- b. Session
- c. Querystring
- d. Option a and b are correct

ANSWER: Querystring

5) Which Session Mode stores session Information in Current Application Domain?

- a. InProc
- b. StateServer
- c. SQLServer
- d. Off

ANSWER: InProc

6) By default, when you use Page Output Caching, at what location page is cached?

- a. Only on web server
- b. Only on Client
- c. Web server, any proxy servers, and browser
- d. All of the above.

ANSWER: Web server, any proxy servers, and browser

7) What code you will write for using the cache object?

- a.
// Storing the value.
Cache["name"]="CareerRide";

```
// Retrieving the value on any webpage within the application.  
if (Cache["name"] != null)  
Label1.Text= Cache["name"].ToString();
```

b.

```
// Storing the value.  
Cache="CareerRide";  
// Retrieving the value on any webpage within the application.  
if (Cache != null)  
Label1.Text= Cache.GetStringValue;
```

c.

```
// Storing the value.  
Cache["name"]="CareerRide";  
// Retrieving the value on any webpage within the application.  
if (Cache["name"] != null)  
Label1.Text= Cache["name"].Text;
```

d. None of the above.

ANSWER:

// Storing the value.

Cache["name"]="CareerRide";

// Retrieving the value on any webpage within the application.

if (Cache["name"] != null)

Label1.Text= Cache["name"].ToString();

8) Debug class is available in which namespace?

- a. System.Debug
- b. System.Data
- c. System.Diagnostics
- d. None of the above

ANSWER: System.Diagnostics

9) Match the following List 1 to List 2

- | | |
|--------------------------|---|
| a. Literal Control ----- | i. SingleLine, MultiLine, Password |
| b. Label Control ----- | ii. CommandName |
| c. TextBox Control ----- | iii. Convert to span tag in HTML |
| d. Button Control ----- | iv. PassThrough, Encode, Transform mode |

- a. a-iv, b-iii, c-ii, d-i
- b. a-ii, b-iv, c-i, d-iii
- c. a-ii, b-i, c-iii, d-iv
- d. a-iv, b-iii, c-i, d-ii

ANSWER: a-iv, b-iii, c-i, d-ii

10) You are developing a Web page that contains many validated controls. You want to provide a detailed message for each validation error, but the page doesn't have sufficient space to provide the detailed message next to each control. What can you do to indicate an error at the control and list the detailed error messages at the top of the Web page?

a.

- Set the Text property of the validator control to the detailed message.
- Set the ErrorMessage property to an asterisk (*).
- Place a ValidationSummary control at the top of the Web page.

b.

- Set the ErrorMessage property of the validator control to the detailed message.
- Set the Text property to an asterisk (*).
- Place a ValidationSummary control at the top of the Web page.

c.

- Set the ToolTip property of the validator control to the detailed message.
- Set the ErrorMessage property to an asterisk (*).
- Place a ValidationSummary control at the top of the Web page.

d. None of the above

ANSWER:

- Set the ErrorMessage property of the validator control to the detailed message.

- Set the Text property to an asterisk (*).

- Place a ValidationSummary control at the top of the Web page.

11) A Master Page contains a ScriptManager control and a user wants the AJAX functionality on content page then which control is necessary on content page?

- a.** AsyncPostBackTrigger
- b.** ScriptManager
- c.** ScriptManagerProxy
- d.** None of the above.

ANSWER: ScriptManagerProxy

12) You are writing a page that contains an UpdatePanel for partial-page updates. You want that user should get the message "Processing is going on, please wait." that the update is processing only if the update takes longer than 5 seconds. Which actions should you take?

- a.** Add a ProgressBar control to the page. Set the Interval property to 5000. Set the text property as "Processing is going on, please wait."
- b.** Add a Timer control to the page. Set the Interval property to 5000. Set its text property to Processing is going on, please wait."
- c.** Add an UpdateProgress control to the UpdatePanel. Set its DisplayAfter property to 5000. Set its ProgressTemplate contents to read "Processing is going on, please wait."
- d.** None of the above.

ANSWER: Add an UpdateProgress control to the UpdatePanel. Set its DisplayAfter property to 5000. Set its ProgressTemplate contents to read

"Processing is going on, please wait."

13) Which of the following is a valid skin code inside a skin file?

- a.** <asp:TextBox BackColor="Yellow" BorderStyle="Dotted" ID="colorTxt" Runat="Server"/>
- b.** <asp:TextBox BackColor="Yellow" BorderStyle="Dotted" Runat="Server" />

- c. <asp:TextBox BackColor="Yellow" BorderStyle="Dotted" ID="colorTxt" />
- d. None of the above.

ANSWER: <asp:TextBox BackColor="Yellow" BorderStyle="Dotted" Runat="Server" />

14) What are the basic steps to reference master page properties from a content page?

- a.
 - Create a property in the master page code-behind file.
 - Reference the master page property from the content page using the syntax Master.<Property_Name>
- b.
 - Create a property in the master page code-behind file.
 - Add the @ MasterType declaration to the .aspx content page.
 - Reference the master page property from the content page using the syntax Master.<Property_Name>
- c.
 - Create a property in the master page code-behind file.
 - Reference the master page property from the content page using the syntax Master.<Property_Name>
- d. None of the above

ANSWER:

- Create a property in the master page code-behind file.
- Add the @ MasterType declaration to the .aspx content page.
- Reference the master page property from the content page using the syntax Master.<Property_Name>

15) Which ADO.NET class provide Disconnected Environment?

- a. DataReader
- b. DataSet
- c. Command
- d. None of the above.

ANSWER: DataSet

16) Which ADO.NET class provide Connected Environment?

- a. DataReader
- b. DataSet
- c. Command
- d. None of the above

ANSWER: DataReader

17) Match the following List 1 to List 2

- a. App_Code ----- i. Assembly Resource Files (.resx)
- b. App_Data ----- ii. .skin file, CSS files
- c. App_Themes ----- iii. .mdf file, .mdb file
- d. App_GlobalResources ----- iv. .wsdl files, typed datasets

- a. a-iv, b-iii, c-ii, d-i
- b. a-ii, b-iv, c-i, d-iii
- c. a-ii, b-i, c-iii, d-iv
- d. a-ii, b-iv, c-iii, d-i

ANSWER: a-iv, b-iii, c-ii, d-i

18) In ASP.NET application DLL files are stored in which folder?

- a. App_Code
- b. App_Data
- c. Bin
- d. App_LocalResources

ANSWER: Bin

19) What types of data can you store in the Cache collection?

- a. Only String Type of Data
- b. You can store any type of data in the Cache collection.
- c. Only DataSet Object
- d. All of the above.

ANSWER: You can store any type of data in the Cache collection.

20) How many types of parameter supported by OutputCache?

- a. VaryByParam
- b. VaryByControl
- c. VaryByHeader
- d. VaryByCustom
- e. All of the above

ANSWER: All of the above

21) You want to secure the connection strings contained within your Web.config file to ensure that no one can open the file easily and see the connection information. Which tool must you use to encrypt the connection strings?

- a. ASPNET_WP.EXE
- b. ASPNET_REGSQL.EXE
- c. ASPNET_REGIIS.EXE
- d. None of the above.

ANSWER: ASPNET_REGIIS.EXE

22) What are the three primary kinds of parameters are used while working with the Stored Procedure in ASP.NET?

- a. Input, Integer, String
- b. int, varchar, nvarchar
- c. Input, Output, InputOutput
- d. All of the above.

ANSWER: Input, Output, InputOutput

23) How do you execute multiple SQL statements using a DataReader?

- a. Call the ExecuteReader method of a single Command object twice.
- b. Set the Command.CommandText property to multiple SQL statements delimited by a semicolon.
- c. Set the Command.CommandType property to multiple result sets.
- d. None of the above.

ANSWER: Set the Command.CommandText property to multiple SQL

statements delimited by a semicolon.

24) When a User's Session times out which event should you respond to?

- a. Application_Start
- b. Session_End
- c. Session_Start
- d. Application_End

ANSWER: Session_End

25) Which of the following Web.config files correctly enables the Web application to track the LastVisit of anonymous users in a variable of type DateTime?

a.

```
<anonymousIdentification enabled="true"/>
<profile>
<properties>
<add name="LastVisit" type="System.DateTime" allowAnonymous="true" />
</properties>
</profile>
```

b.

```
<anonymousIdentification enabled="true"/>
<profile>
<properties>
<add name=" LastVisit " allowAnonymous="true" />
</properties>
</profile>
```

c.

```
<anonymousIdentification enabled="true" />
<profile>
< properties>
< add name=" LastVisit " type="System. DateTime " />
</properties>
</profile>
```

d.

```
<profile>
<properties>
<add name="LastVisit" type="System. DateTime" />
</properties>
</profile>
```

ANSWER:

```
<anonymousIdentification enabled="true"/>
<profile>
<properties>
<add name="LastVisit" type="System.DateTime" allowAnonymous="true" />
</properties>
</profile>
```

SET-8

1) A web page has lots of input data, and you want the data input to be spread across multiple screens. What is the best control to implement this solution on a single Web page?

- a. ImageMap
- b. Panel
- c. Wizard
- d. None of the above.

ANSWER: Wizard

2) Match the following List 1 (Controls) to List 2.

- | | |
|----------------------|---|
| a. Image ----- | i. Navigate,PostBack,Inactive HotSpotMode |
| b. ImageButton ----- | ii. Container control |
| c. ImageMap ----- | iii. Has command event |
| d. MultiView ----- | iv. Does not have click event |

- a. a-iv, b-iii, c-i, d-ii
- b. a-ii, b-iv, c-i, d-iii
- c. a-ii, b-i, c-iii, d-iv
- d. a-iv, b-iii, c-i, d-ii

ANSWER: a-iv, b-iii, c-i, d-ii

3) What are the steps to create a DataTable programmatically?

- a. Instantiate a new DataTable and add DataColumn objects to the DataTable. Columns Collection.
- b. Run the Data Source Configuration Wizard.
- c. Instantiate a new DataSet object.
- d. None of the above.

ANSWER: Instantiate a new DataTable and add DataColumn objects to the DataTable. Columns Collection.

4) The three statements are given below about DataSet and DataReader, choose the correct option according to the statement.

Statement 1: DataSet Provides Disconnected environment but DataReader provides Connected environment.

Statement 2: DataSet Provides Connected environment but DataReader provides Disconnected environment.

Statement 3: DataSet Can store multiple table simultaneously but DataReader Supports a single table based on a single SQL query.

- a. Only Statement 1 is correct.
- b. Statement 1 and 2 is correct.
- c. Statement 2 and 3 is correct.
- d. Statement 1 and 3 is correct.

ANSWER: Statement 1 and 3 is correct.

5) The following group profile properties defined under a group name in Web.config file. How will you access Street and City property?

```
<properties>  
<group name="Address">  
<add name="Street" />  
<add name="City" />  
</group>  
</properties>
```

- a. - Profile.name.Street
- Profile.name.City
- b. - Profile.Address.Street
- Profile.Address.City
- c. - Address.Street
- Address.City
- d. None of the above.

ANSWER: - Profile.Address.Street

6) Which control is required of every AJAX page to manage the JavaScript files sent to the client and the communication between client and server?

- a. UpdatePanel
- b. ScriptManager
- c. AsyncPostBackTrigger
- d. None of the above.

ANSWER: ScriptManager

7) The UpdatePanel supports two types of triggers: AsyncPostBackTrigger and PostBackTrigger. Choose the correct option regarding working of these triggers.

- a. AsyncPostBackTrigger causes an asynchronous (Ajax) postback.
- b. PostBackTrigger causes a normal entire-page postback.
- c. AsyncPostBackTrigger causes a normal entire-page postback.
- d. Option A and B are Correct.

ANSWER: Option A and B are Correct.

8) What is/are true about master page? Choose the correct option.

- a. You can add more than one master page in a website.
- b. Master page can be nested.
- c. ContentPlaceholder control is required on a content page.
- d. Both A and B options are correct.

ANSWER: Both A and B options are correct.

9) What is/are true about master page?

- a. Master page contains a <%@ Master %> directive instead of the normal <%@ Page %> directive.
- b. ContentPlaceHolder control can be added only on master page.
- c. You can add as many ContentPlaceHolders to a Master Page as you need.
- d. All of the above.

ANSWER: All of the above.

10) To implement a specified .NET Framework interface which directive is used?

- a. @Register
- b. @Control
- c. @Reference
- d. @Implements

ANSWER: @Implements

11) Which of the following is not an ASP.NET page event?

- a. Init
- b. Load
- c. Import
- d. None of the above.

ANSWER: Import

12) How will you store and retrieve value in viewstate?

- a. // Storing the data in viewstate
ViewState["SiteName"]="CareerRide";
// Retrieving Value from a View State
Label1.Text = ViewState["SiteName "].ToString();
- b. // Storing the data in viewstate
ViewState obj=new ViewState
ViewState [obj]="CareerRide";
// Retrieving Value from a View State
Label1.Text = ViewState[obj].ToString();
- c. // Storing the data in viewstate
ViewState="CareerRide";
// Retrieving Value from a View State
Label1.Text = ViewState.ToString();
- d. None of the above.

ANSWER: // Storing the data in viewstate

ViewState["SiteName"]="CareerRide";

// Retrieving Value from a View State

Label1.Text = ViewState["SiteName "].ToString();

13) Which file is used to write the code to respond to the Application_Start event?

- a. Any ASP.NET web page with an .aspx extension
- b. Web.config
- c. Global.asax
- d. None of the above.

ANSWER: Global.asax

14) What is the difference between a Local Transaction and a Distributed Transaction?

- a. Local transactions are performed on a single database table, but distributed transactions are performed on more than one database tables.
- b. Local transactions are performed on a single database server, but distributed transactions can be performed across multiple database servers.
- c. Local transactions are performed on a database on the local machine, but distributed transactions are performed on a database on a remote machine.
- d. None of the above.

ANSWER: Local transactions are performed on a single database server, but distributed transactions can be performed across multiple database servers.

15) Choose the correct option about DataReader object.

- a. DataReader object is a forward-only object.
- b. It provides connection oriented environment.
- c. DataReader is read only object.
- d. All of the above

ANSWER: All of the above

16) Using which type of stylesheet we can change the style of an element in the entire website?

- a. Internal Stylesheet
- b. External Stylesheet
- c. Inline stylesheet
- d. None of these above

ANSWER: External Stylesheet

17) How do you create a TextBox for retrieving a password from a user?

- a. Set TextMode property of the TextBox control to Secret.
- b. Set Mode property of the TextBox control to Password.
- c. Set Text property of the TextBox control to Password.
- d. Set TextMode property of the TextBox control to Password.

ANSWER: Set TextMode property of the TextBox control to Password.

18) What is/are the advantages of StateServer session mode?

- a. Its keeps the data separate from IIS so; if any Issue comes with IIS it will not hamper Session data.
- b. It is useful in web farm and web garden scenarios.
- c. Process is fast due to serialization and de-serialization.
- d. A and B are the correct option.

ANSWER: A and B are the correct option.

19) What is/are the advantages of Session State?

- a. It helps to maintain user data to all over the application and can store any kind of object.
- b. Stores every client data separately.

- c. Session is secure and transparent from user.
- d. All of the above

ANSWER: All of the above

20) Choose the correct option about DataSet object.

- a. Provides Disconnected mode
- b. Can store multiple table simultaneously
- c. Consumer Object
- d. All of the above.

ANSWER: All of the above.

21) You are a Web developer for CareerRide. The data is stored in a Microsoft SQL Server 2005 database on a server named CareerPC and the Database name is TestDB. You connect to TestDB by using Windows Integrated authentication. You use a SqlConnection object to connect to the database. You need to create a connection string to TestDB in the instance of SQL Server named CareerPC. Which string should you use?

- a. "Data Source= CareerPC; Database=TestDB; Integrated Security=SSP1".
- b. "Data Source= CareerPC; Initial Catalog=TestDB; Integrated Security=SSP1".
- c. "Server= CareerPC; Database=TestDB; Integrated Security=SSP1".
- d. All of the above.

ANSWER: All of the above.

22) Match the following List 1 with List 2:

- a. Control ----- i. Controls the output caching policies of a page or user control.
- b. MasterType ----- ii. Page directive uses with user controls.
- c. PreviousPageType ---- iii. Enables an ASP.NET page to work with a postback from another page in the application.
- d. OutputCache ----- iv. Associates a class name to a page to get references or members contained within the specified master page.

- a. a-ii, b-i, c-iv, d-iii
- b. a-ii, b-iv, c-i, d-iii
- c. a-ii, b-i, c-iii, d-iv
- d. a-ii, b-iv, c-iii, d-i

ANSWER: a-ii, b-iv, c-iii, d-i

23) ASP.NET Validation Control works at _____ .

- a. Client side only.
- b. Server side only.
- c. Both Client Side and Server Side
- d. None of the above.

ANSWER: Both Client Side and Server Side

24) Some control, by default, does not cause an automaticPostBack, i.e TextChanged event of TextBox. Which property will you set for automatic postback of these types of controls?

- a. isPostBack="false"
- b. isPostBack="true"
- c. PostBack="true"
- d. AutoPostBack="true"

ANSWER: AutoPostBack="true"

25) What is the easiest way in Design view to create an event handler for the default event of a server control?

- a. Open the code-behind page and write the code.
- b. Right-click the control and select Create Handler.
- c. Drag an event handler from the Toolbox to the desired control.
- d. Double-click the control.

ANSWER: Double-click the control.

26) What are the types of Web Server Button Controls that can be created?

- a. Only Submit buttons
- b. Only Command buttons
- c. Submit and command buttons
- d. None of the above.

ANSWER: Submit and command buttons

SET-9

1) Clicking a CheckBox does not cause an automaticPostBack. How do you make the CheckBox cause an automaticPostBack?

- a. Set the AutoPostBack property to true.
- b. Add JavaScript code to call the ForcePostBack method.
- c. Set the PostBackAll property of the Web Page to true.
- d. None of the above

ANSWER: Set the AutoPostBack property to true.

2) What happen in the Web Page when Init event occur?

- a. ViewState is loaded on the page.
- b. Each child control of the page is initialized to its design time values.
- c. HTML is rendered.
- d. None of the above

ANSWER: Each child control of the page is initialized to its design time

3) What are the Command Object Methods?

- a. ExecuteNonQuery
- b. ExecuteReader
- c. ExecuteScalar
- d. All of the above

ANSWER: All of the above

4) If you want that command object should returns XML data then which method of Command Object will be used?

- a. getXMLData
- b. getXML
- c. ExecuteXMLReader
- d. None of the above.

ANSWER: ExecuteXMLReader

5) Match the following List 1 to List 2:

- a. UpdatePanel ----- i. If Master Page contains a ScriptManager then content page will use this control.
- b. UpdateProgress ----- ii. ContentTemplate
- c. Timer ----- iii. ProgressTemplate
- d. ScriptManagerProxy ----- iv. Tick Event

- a. a - iii b - ii c - iv d - i
- b. a - ii b - iii c - iv d - i
- c. a - i b - ii c - iv d - iii
- d. a - i b - ii c - iii d - iv

ANSWER: a - ii b - iii c - iv d - i

6) Windows-Based Authentication is well suited for _____ .

- a. Intranet environment
- b. Public web site
- c. Desktop application
- d. None of the above

ANSWER: Intranet environment

7) What are the minimum attribute is required to create a connection string using SqlConnection object?

- a. - Data Source
 - Initial Catalog
 - Integrated security=true
- b. - Server
 - Database
 - Integrated security=true
- c. Option A and B both are correct
- d. None of the above

ANSWER: Option A and B both are correct

8) What datatype is returned when calling the ExecuteScalar method of a command object?

- a. System.Int32
- b. Object
- c. No. of effected records
- d. None of the above

ANSWER: Object

9) You want to make a configuration setting change that will affect only the current Web application. Which file will you change?

- a. Global.asax
- b. Web.config in the root of the Web application
- c. Machine.config
- d. All of the above

ANSWER: Web.config in the root of the Web application

10) Which programming model should you implement if you want to separate your server-side code from your client-side layout code in a Web page?

- a. Single-file model
- b. Code-behind model
- c. Inline model
- d. Client-server model

ANSWER: Code-behind model

11) Which object in ASP.NET provides a global storage mechanism for state data that needs to be accessible to all pages in a given Web application?

- a. Session
- b. Application
- c. ViewState
- d. None of the above

ANSWER: Application

12) Which Session Mode Serialization is not required to store the data?

- a. Off
- b. InProc
- c. StateServer
- d. SQLServer

ANSWER: InProc

13) You are a Web developer for CareerRide. The data is stored in a Microsoft SQL Server 2005 database on a server named CareerPC and the Database name is TestDB. There is one GridView control on the page that you want to fill with table name Employee. Suppose that SqlConnection object is conObj and SqlCommand Object object is cmdObj. Which important properties of command object you will initialize to achieve this task?

- a. cmdObj.CommandType = Text;
cmdObj.Connection = conObj;
cmdObj.CommandText = "select * from Employee";
- b. cmdObj.CommandConnection = conObj;
cmdObj.CommandText = "select * from Employee";
- c. cmdObj.CommandType = CommandType.Text;
cmdObj.Connection = conObj;
cmdObj.CommandText = "select * from Employee";
- d. None of the above.

ANSWER: cmdObj.CommandType = CommandType.Text;

cmdObj.Connection = conObj;

cmdObj.CommandText = "select * from Employee";

14) How will you create the SQL Server Connection Objects in Code? Choose the correct option.

- a. SqlConnection con = new SqlConnection ("Data Source=ServerName; Initial Catalog=DatabaseName;Integrated Security=True");
- b. SqlConnection con = new SqlConnection();
con.ConnectionString = ("Data Source=ServerName; Initial Catalog=DatabaseName;Integrated Security=True");
- c. using (SqlConnection con = new SqlConnection("Data Source=ServerName; Initial Catalog=DatabaseName;Integrated Security=True"))
{
con.Open();

}
- d. All of the above codes are correct.

ANSWER: All of the above codes are correct.

15) Which of the following statements about referencing master page methods and properties is true?

- a. Content pages can reference controls in the master page.
- b. Content pages can reference public properties in the master page.
- c. Content pages can reference public methods in the master page.
- d. All of the above.

ANSWER: All of the above.

16) Choose the correct option about Master Page and Theme.

- a. A Master Page enables you to share content across multiple pages in a website and A Theme enables you to control the appearance of the content.
- b. Theme enables you to share content across multiple pages in a website and A Master Page enables you to control the appearance of the content.
- c. App_Themes folder contains skin files.
- d. Option A and C are correct.

ANSWER: Option A and C are correct.

17) When should you use HTML Server control rather than Web Server controls?

- a. You are migrating existing, classic ASP pages over to ASP.NET pages.
- b. The control needs to have custom client-side JavaScript attached to the control's events.
- c. The Web page has lots of client-side JavaScript that is referencing the control.
- d. All of the above.

ANSWER: All of the above.

18) Which property will you set for each RadioButton Control in the group?

- a. Specify the same GroupName for each RadioButton.
- b. Specify the different GroupName for each RadioButton.
- c. Specify the same GroupID for each RadioButton.
- d. Specify the same ID for each RadioButton.

ANSWER: Specify the same GroupName for each RadioButton.

19) Which file contains settings for all .NET application types, such as Windows, Console, ClassLibrary, and Web applications?

- a. Web.config
- b. Machine.config
- c. Global.asax
- d. All of the above

ANSWER: Machine.config

20) Which object data is included in bookmarks and e-mailed URLs?

- a. ViewState
- b. cookies
- c. Query strings
- d. All of the above

ANSWER: Query strings

21) If you want to validate the email addresses, Social Security numbers, phone numbers, and dates types of data, which validation control will be used?

- a. RegularExpressionValidator
- b. CompareValidator
- c. RequiredFieldValidator
- d. None of the above

ANSWER: RegularExpressionValidator

22) When should you use the OleDbConnection object?

- a. When connecting to an Oracle database.
- b. When connecting to an Office Access database
- c. When connecting to SQL Server 2000
- d. None of the above

ANSWER: When connecting to an Office Access database

23) In a SQL Statement while working with SqlCommand it returns a single value, at that time which method of Command Object will be used?

- a. ExecuteNonQuery
- b. ExecuteReader
- c. ExecuteScalar
- d. All of the above

ANSWER: ExecuteScalar

24) According to the given below statements, choose the correct option.

Statement 1: Application caching is the process of storing data (and not pages) in a cache object.

Statement 2: Page output caching stores a rendered page, portion of a page, or version of a page in memory.

Statement 3: Caching reduces the time required to render cached page in future requests.

- a. Only statement 1 is correct.
- b. Statement 2 and 3 are correct.
- c. Only statement 3 is correct.
- d. All statements are correct.

ANSWER: All statements are correct.

SET-10

1) Choose the correct one.

```
int[] numbers = { 9, 10, 0, 11 };
```

```
var nums =  
from n in numbers  
select n + 1;
```

```
foreach (var i in nums)  
{  
    Console. Write (i+”,”);  
}
```

- a. 10, 11, 1, 12
- b. 10, 11, 12, 13
- c. 9, 10, 0, 11
- d. None of these

ANSWER: 10, 11, 1, 12

2) Choose the correct one.

```
int[] numbers = { 9, 4, 1, 3, 8, 6, 7, 2,1 };
```

```
var nums = numbers.Take(3);
```

```
foreach (var n in nums)  
{  
    Console.WriteLine(n);  
}
```

- a.
7
2
1
- b.
9
4
1
- c.
3
8
6
- d.
1
4
9

ANSWER:

- 9**
- 4**
- 1**

3) Choose the correct one.

```
int[] numbers = { 5, 4, 11, 3, 9, 8, 6, 7, 2, 0 };
```

```
var nums = numbers.Skip(4);
```

```
foreach (var n in nums)
{
    Console.WriteLine(n+ " ");
}
```

- a. 9867 2 0
- b. 5411398
- c. 54113
- d. None of the above

ANSWER: 9867 2 0

4) Choose the correct one.

```
int[] A = { 0, 2, 4, 5, 6, 8 };
int[] B = { 1, 3, 5, 7, 8 };
```

```
var nums = A.Union(B);
```

```
foreach (var n in nums)
{
    Console.WriteLine(n+ " ");
}
```

- a. 0 24568 13578
- b. 0 2 4 5 6 8 1 3 7
- c. 0 1 2 3 4 5 6 7 8
- d. None of the above

ANSWER: 0 2 4 5 6 8 1 3 7

5) Choose the correct one.

```
int[] A = { 0, 2, 4, 5, 6, 8, 9 };
int[] B = { 1, 3, 5, 7, 8 };
```

```
IEnumerable nums = A.Except(B);
```

```
foreach (var n in nums)
{
    Console.WriteLine(n + " ");
}
```

- a. 0, 2, 4, 5, 6, 8, 9
- b. 1, 3, 5, 7, 8
- c. 0 2 4 6 9
- d. All of the above

ANSWER: 0 2 4 6 9

6) Which LINQ statement defines the range variable in a LINQ query?

- a. from
- b. select
- c. join
- d. where

ANSWER: from

7) Which query expression is used to limit the number of results?

- a. Skip
- b. Take
- c. Where
- d. Select

ANSWER: Take

8) Which interface defines the basic extension methods for LINQ?

- a. IComparable<T>
- b. IList
- c. IEnumerable
- d. IQueryable<T>

ANSWER: IEnumerable

9) What LINQ expressions are used to shape results in a query?

- 1. where
- 2. select
- 3. join
- 4. group

- a. 2, 4
- b. 1, 2
- c. 3, 4
- d. None

ANSWER: 2, 4

10) What types of shapes can LINQ query results be shaped into?

- 1. Collections of primitive types
- 2. Collections of complex types
- 3. Single types
- 4. Collections of anonymous types

- a. 1, 2, 4
- b. 1,2,3
- c. 1,3,4
- d. None of the above

ANSWER: 1, 2, 4

11) Which LINQ statement is used to merge two data sources to perform queries?

- a. where
- b. select
- c. join
- d. group

ANSWER: join

12) Which LINQ keyword is used to categorize results in a query?

- a. where
- b. select
- c. join
- d. group

ANSWER: group

13) Which of the following statements is true?

- a. LINQ to SQL works with any database.
- b. LINQ to SQL works with SQL Server.
- c. LINQ to SQL is a CLR feature.
- d. LINQ to SQL is a SQL Server feature.

ANSWER: LINQ to SQL works with SQL Server.

14) LINQ query can work with?

- a. DataSet
- b. List<T>
- c. Array
- d. All of the above

ANSWER: All of the above

15) How you can merge the results from two separate LINQ queries into a single result set.

- a. Use the ToList method.
- b. Use the JsonConvert.SerializeObject class.
- c. Use the XElement class.
- d. Use the Concat method.

ANSWER: Use the Concat method.

16) Which of the following objects represents a LINQ to SQL O / R map?

- a. DataSet
- b. XElement
- c.ObjectContext
- d. DataContext

ANSWER: DataContext

17) What is lamda expression?

1. Anonymous function
2. Can be used to create delegates

3. Named function

4. None

- a. 1, 2
- b. 1, 2, 3
- c. 1, 3
- d. 4

ANSWER: 1, 2

18) Choose the correct one

- a. The lambda must contain the same number of parameters as the delegate type.
- b. The lambda should not contain the same number of parameters as the delegate type.
- c. The return value of the lambda (if any) must be explicitly convertible to the delegate's return type
- d. None of the above

ANSWER: The lambda must contain the same number of parameters as the delegate type.

19) Choose the correct one.

- a. The return value of the lambda (if any) must be explicitly convertible to the delegate's return type
- b. Each input parameter in the lambda must be implicitly convertible to its corresponding delegate parameter.
- c. Lambda expression does not work with LINQ.
- d. None of the above

ANSWER: Each input parameter in the lambda must be implicitly convertible to its corresponding delegate parameter.

20) Choose the correct one

- a. Variables introduced within a lambda expression are not visible in the outer method.
- b. Variables introduced within a lambda expression are visible in the outer method.
- c. The lambda should not contain the same number of parameters as the delegate type.
- d. None of the above

ANSWER: Variables introduced within a lambda expression are not visible in the outer method.

21) Choose the correct option.

- a. Dynamic type is non - static type.
- b. Dynamic type is static type.
- c. Implicit conversion does not work with type dynamic.
- d. None of the above

ANSWER: Dynamic type is static type.

22) Which of the following statement is correct?

- a. Anonymous types are class types that derive directly from object.
- b. Anonymous types are not class types that derive directly from object.
- c. Anonymous types are class types that derive directly from System.Class.
- d. None of the above

ANSWER: Anonymous types are class types that derive directly from object.

23) What types of Objects can you query using LINQ?

- a. DataTables and DataSets
- b. Any .NET Framework collection that implements IEnumerable(T)
- c. Collections that implement interfaces that inherit from IEnumerable(T)
- d. All of the above

ANSWER: All of the above

24) When do LINQ queries actually run?

- a. When they are iterated over in a foreachloop
- b. When calling the ToArray() method on the range variable
- c. When calling the ToList() method on the range variable
- d. All of the above

ANSWER: All of the above

25) Which of the following statement / s is / are true?

- a. CommitChanges is a method of SqlDataContext.
- b. CommitChanges is a method of DataContext.
- c. CommitChanges is a method of DbDataContext.
- d. CommitChanges is a method of OleDbData Context

ANSWER: CommitChanges is a method of DataContext.

----- Check Numbering -----

29) An interface can contain declaration of?

- a. Methods, properties, events, indexers
- b. Methods
- c. Static members
- d. All of the above

ANSWER: Methods, properties, events, indexers

30) Which of the following are correct?

1. An interface can be instantiated directly.
 2. Interfaces can contain constructor.
 3. Interfaces contain no implementation of methods.
 4. Classes and structs can implement more than one interface.
 5. An interface itself can inherit from multiple interfaces.
- a. 3,4,5
 - b. 1,2,3
 - c. 2,3,4
 - d. All of the above

ANSWER: 3,4,5

31) Which of the following are correct?

- 1. Delegates are like C++ function pointers.**
- 2. Delegates allow methods to be passed as parameters.**
- 3. Delegates can be used to define callback methods.**
- 4. Delegates are not type safe.**

- a. 1,3,4
- b. 1,2,3
- c. 2,3,4
- d. All of the above

ANSWER: 1,2,3

32) Properties in .NET can be declare as

- 1. Static, Protected internal, Virtual**
- 2. Public, internal, Protected internal**
- 3. Only public**
- 4. None**

- a. 1, 2
- b. 3
- c. 1, 2, 3
- d. 4

ANSWER: 1, 2

33) Which of the following statements are correct?

- 1. Indexers enable objects to be indexed in a similar manner to arrays.**
- 2. The this keyword is used to define the indexers.**
- 3. Indexers can be overloaded.**
- 4. Indexer cannot be used in interface**

- a. 1, 2
- b. 3
- c. 1,2,3
- d. None of the above

ANSWER: 1,2,3

34) The best way for handling exception when dealing with a database connection?

- a. Implement a try / catch block that catches System.Exceptions.
- b. Implementing custom error page.
- c. Implement a try / catch block that catches individual exception types, such as SQLException.
- d. Display an error message.

ANSWER: Implement a try / catch block that catches System.Exceptions.

35) For building new types at runtime which class can be used?

- a. System
- b. System.Object
- c. System.NewClass
- d. System.Reflection.Emit.

ANSWER: System.Reflection.Emit.

36) Reflection can be used when?

- a. To access attributes in your program's metadata
- b. To create type at compile time
- c. To access attributes at compile time.
- d. None of the above

ANSWER: To access attributes in your program's metadata

37) Choose the correct one

- 1) XML serialization serializes the public fields and properties of an object.
- 2) XML serialization serializes the private fields and properties of an object.
- 3) XML serialization serializes only the public methods.

- a. Only 1
- b. Only 2
- c. Only 1 & 2
- d. All of the above

ANSWER: Only 1

38) Choose the correct one

- 1) Sealed class can be declared as abstract
- 2) Abstract class cannot be declared as abstract
- 3) Abstract class can be declared as abstract

- a. Only 1
- b. Only 2
- c. Only 1 & 2
- d. All of the above

ANSWER: Only 1

39) A write - only property can be specified if the following is present.

- a. The set modifier only
- b. The get modifier only
- c. Both the modifiers
- d. None of the modifiers

ANSWER: The set modifier only

40) An indexer is

- a. A class
- b. A structure
- c. An enumeration
- d. A special type of property

ANSWER: A special type of property

SET-11

1) You need to select a class that is optimized for key - based item retrieval from both small and large collections. Which class should you choose?

- a. OrderedDictionary class
- b. HybridDictionary class
- c. ListDictionary class
- d. Hashtable class

ANSWER: HybridDictionary class

2) You need to identify a type that meets the following criteria:

- Is always a number.
- Is not greater than 65,535.

Which type should you choose?

- a. System.UInt16
- b. int
- c. System.String
- d. System.IntPtr

ANSWER: System.UInt16

3) Which of the following is dictionary object?

- a. HashTable
- b. SortedList
- c. NameValueCollection
- d. All of the above

ANSWER: All of the above

4) You want to configure the application to use the following authorization rules in web.config file.

- Anonymous users must not be allowed to access the application.
- All employees except ABC must be allowed to access the application.

a.

```
<authorization>
<deny users="ABC">
<allow users="*">
<deny users="?">
</authorization>
```

b.

```
<authorization>
<allow users="*">
<deny users="ABC">
<deny users="?">
</authorization>
```

c.

```
<authorization>
<allow users="ABC">
<allow users="*">
</authorization>
```

d.

```
<authorization>
<deny users="ABC">
<deny users="?">
<allow users="*">
</authorization>
```


ANSWER:

<authorization>

<deny users="ABC">

<deny users="?">

<allow users="*">

</authorization>

5) An assembly must have an permission to connect with web server is?

- a. socketPermission
- b. DnsPermission
- c. WebPermission
- d. TCPPermission

ANSWER: WebPermission

6) Thread class has the following property.

- A. ManagedThreadID
 - B. IsBackground
 - C. IsBackgroundColor
 - D. Abort
- a. 1, 2
 - b. 1, 4
 - c. 4
 - d. 1 ,2, 4

ANSWER: 1, 2

7) Which delegate is required to start a thread with one parameter?

- a. ThreadStart
- b. ParameterizedThreadStart
- c. ThreadStartWithOneParameter
- d. None of the above

ANSWER: ParameterizedThreadStart

8) For locking the data with synchronization which class will be used?

- a. Lock
- b. Monitor
- c. SyncLock
- d. Deadlock

ANSWER: Monitor

9) How many readers can simultaneously read data with ReaderWriterLock if there is no writer locks apply?

- a. 9
- b. 11
- c. 13
- d. No Limit

ANSWER: No Limit

10) Which of the following are value types?

- a. String
- b. System .Value
- c. System.Drawing
- d. System.Drawing.Point

ANSWER: System.Drawing.Point

11) Which of the following are reference types?

- a. String
- b. Exception
- c. Class
- d. All of the above

ANSWER: All of the above

12) Why should you write the cleanup code in Finally block?

- a. Compiler throws an error if you close the connection in try block.
- b. Resource cannot be destroyed in catch block.
- c. Finally blocks run whether or not exception occurs.
- d. All of the above

ANSWER: Finally blocks run whether or not exception occurs.

13) When the garbage collector runs.

- a. It runs automatically
- b. EveryDay
- c. Every alternate day
- d. When IIS restart.

ANSWER: It runs automatically

14) Which of the following is true ?

- 1. AJAX is a platform-independent technology
 - 2. AJAX can work with web application
 - 3. AJAX can only work with ASP.NET
 - 4. AJAX is a platform-dependent technology
- a. 1, 2
 - b. 1,2,3
 - c. 1,3,4
 - d. None of the above

ANSWER: 1, 2

15) Which control is required for every page that have AJAX Extensions for ASP.NET?

- a. UpdatePanel
- b. ScriptManager
- c. ContentPanel
- d. None of the above

ANSWER: ScriptManager

16) AnUpdatePanel control defined on a page. Button control is placed outside of the UpdatePanel. How to cause the UpdatePanel to execute an update.

- a. Set the Trigger attribute of the UpdatePanel to the ID of the Button control.
- b. Set the AsyncPostBackTrigger attribute of the Button control to the ID of theUpdatePanel.
- c. Place the button control on the update panel without script manager.
- d. Add an AsyncPostBackTrigger control to the Triggers section of the UpdatePanel. Set the ControlID attribute of the AsyncPostBackTrigger control to the ID of the Button control.

ANSWER: Add an AsyncPostBackTrigger control to the Triggers section of the UpdatePanel. Set the ControlID attribute of the AsyncPostBackTrigger control to the ID of the Button control.

17) Which method is used to dynamically register client script from code?

- a. Page.ClientScript.RegisterClientScriptBlock
- b. RegisterScript
- c. Page.ClientScript
- d. None of the above

ANSWER: Page.ClientScript.RegisterClientScriptBlock

18) Which interface you will use wrap an AJAX client control into a custom server control?

- a. IScriptManager
- b. IScriptControl
- c. IScriptAJAX
- d. None of the above

ANSWER: IScriptManager

19) What is jQuery?

- 1. jQuery is an open source library
- 2. It works client side.
- 3. jQuery is java technology.

- a. 1, 2
- b. 1, 2, 3
- c. 1, 3
- d. None of the above

ANSWER: 1, 2

20) If you must use a user name and password to connect to a database, where should you store the sensitive information?

- a. Compiled in the application
- b. In an encrypted application configuration file
- c. In a resource file deployed with the application
- d. In the registry

ANSWER: In an encrypted application configuration file

21) What is the recommended method for securing sensitive connection string information?

- a. Encrypting the data in the application configuration file
- b. Using a code obfuscator
- c. Using Integrated Security (Windows Authentication)
- d. Querying the user for his or her credentials at run time

ANSWER: Using Integrated Security (Windows Authentication)

22) What are the element of code access security?

- a. Evidence,Permission
- b. SQLSecurity
- c. UserInterface
- d. SQL Injection

ANSWER: Evidence,Permission

23) What is Caspol?

- a. Command line tool

- b. Code access security policy tool
- c. Case Tool
- d. Command line tool & Code access security policy tool

ANSWER: Command line tool & Code access security policy tool

24) Which data provider gives the maximum performance from a connection to SQL Server?

- a. The OLE DB data provider.
- b. The JDBC data provider.
- c. The SqlClient data provider.
- d. The Oracle data provider

ANSWER: The SqlClient data provider.

25) Which CommandType value is incorrect?

- a. StoredProcedure
- b. TableDirect
- c. TableSchema
- d. Text

ANSWER: TableSchema

26) Which SqlCommand execution returns the value of the first column of the first row from a table?

- a. ExecuteNonQuery
- b. ExecuteReader
- c. ExecuteXmlReader
- d. ExecuteScalar

ANSWER: ExecuteScalar

27) Which SqlCommand execution returns the number of effected records in the table?

- a. ExecuteNonQuery
- b. ExecuteReader
- c. ExecuteXmlReader
- d. ExecuteScalar

ANSWER: ExecuteNonQuery

28) OleDbConnectionobject works with?

- 1. When connecting to an Oracle database
- 2. When connecting to an Office Access database
- 3. When connecting to SQL Server 6.x or later
- 4. When connecting to SQL Server 2000

- a. 1, 2
- b. 2, 3
- c. 1, 3
- d. 4

ANSWER: 2, 3

29) What is the minimal information needed by a connection string to open a connection to a SQL Server 2000 or SQL Server 2005 database?

- 1. A valid data source
- 2. A valid provider name
- 3. A valid file path
- 4. Appropriate credentials or Integrated Security settings

- a. 1, 2
- b. 1, 2, 3
- c. 1, 3
- d. 1, 4

ANSWER: 1, 4

30) What happens when you call the Close method of a connection object?

- 1. The connection is destroyed.
- 2. The connection is returned to the connection pool.
- 3. The StateChangeevent is fired.
- 4. All non - committed pending transactions are rolled back.

- a. 1, 2
- b. 1,3
- c. 2, 3, 4
- d. All of the above

ANSWER: 2, 3, 4

SET-12

1) What determines the connection pool that a connection should use?

1. A connection string
 2. The identity or credentials of the user opening the connection
 3. The database being connected to
 4. The connection object used to connect to the database
- a. 1, 2
 - b. 1, 2, 3
 - c. 1, 3
 - d. 1, 4

ANSWER: 1, 2

2) What are the recommended techniques for enabling connection pooling on for a SQL Server 2000 or SQL Server 2005 database?

1. Setting the OLE DB Services connection string keyword to -4
 2. Opening a connection and not explicitly disabling pooling
 3. Setting the connection string keyword Pooling = True in the connection string
 4. Using the Connection Pooling tab of the ODBC Data Source Administrator dialog Box
- a. 1, 2
 - b. 1, 2, 3
 - c. 2, 3
 - d. 1, 4

ANSWER: 2, 3

3) How do I explicitly turn on connection pooling for an OLE DB data source?

- a. By setting the OLE DB Services connection string keyword to 0
- b. By setting the OLE DB Services connection string keyword to -4
- c. By setting the OLE DB Services connection string keyword to -1
- d. By setting the OLE DB Services connection string keyword to -7

ANSWER: By setting the OLE DB Services connection string keyword to -1

4) What property contains the actual error message returned by SQL Server?

1. `SQLException.Source`
 2. `SQLException.Message`
 3. `SqlError.Class`
 4. `SqlError.Message`
- a. 1, 2
 - b. 1, 2, 3
 - c. 1, 3
 - d. 2, 4

ANSWER: 2, 4

5) What is the connection string's key / value pair for using WindowsAuthentication in SQLServer 2000 and SQL Server 2005?

- a. 1, 2
- b. 1, 2, 3
- c. 2, 3
- d. 1, 4

ANSWER: 2, 3

6) What are the Command object property settings to execute a stored procedure?

1. CommandType = Text, CommandText = stored procedure name
2. CommandType= Text, CommandText = SQL syntax to execute the stored procedure
3. CommandType = StoredProcedure, CommandText = SQL syntax to execute the stored procedure
4. CommandType = StoredProcedure, CommandText = stored procedure name

- a. 1, 2
- b. 1, 2, 3
- c. 2, 4
- d. 1, 4

ANSWER: 2, 4

7) What should you do to access the returned tabular data after starting execution of a command that runs asynchronously? (Choose all that apply.)

1. Call the EndExecuteNonQuery method.
2. Call the EndExecuteReader method.
3. Wait for the StatementCompleted event to fire and iterate through the DataReader.
4. Wait for the StatementCompleted event to fire, call the EndExecuteReader method, and then iterate through the DataReader.

- a. 1, 2
- b. 1, 2, 3
- c. 2, 3
- d. 2, 4

ANSWER: 2, 4

8) How do you execute multiple SQL statements using a DataReader?

- a. Call the ExecuteReader method of two Command objects and assign the results to the same instance of a DataReader.
- b. Call the ExecuteReader method of a single Command object twice.
- c. Set the Command.CommandText property to multiple SQL statements delimited by a semicolon.
- d. Set the Command.CommandType property to multiple result sets.

ANSWER: Set the Command.CommandText property to multiple SQL statements delimited by a semicolon.

9) When would you typically use an Input parameter?

1. When the parameter value is created based on user input
2. When the parameter is used to send data from the application to the database
3. When the command is set to execute a statement with a WHERE clause
4. When the parameter value is passed to an INSERT statement

- a. 1, 2
- b. 1, 2, 3
- c. 2, 3
- d. 1, 4

ANSWER: 2, 3

10) What are the three primary kinds of parameters?

- a. Input, Integer, String
- b. Integer, String, DateTime

- c. int, varchar, nvarchar
- d. Input, Output, InputOutput

ANSWER: Input, Output, InputOutput

11) How do you determine the actual SQL data type of a SqlParameter (the type expected by the SQL Server)?

- a. It is the .NET Framework data type in your application that the parameter represents.
- b. It is the type of column or data in SQL Server that the command expects.
- c. It is the type of column in a DataTable that it represents.
- d. It is any type defined in the SqlDbType enumeration.

ANSWER: It is the type of column or data in SQL Server that the command expects.

12) Which of the following is true?

- a. DataTable object contains DataRow and DataColumn objects
- b. DataSet and DataTable can be binary serialized
- c. DataSet and DataTable can be XML serialized
- d. All of the above

ANSWER: All of the above

13) If you are using the DataSet and you have to display the data in sorted order what will you do?

- a. Use Sort method of DataTable
- b. Use Sort method of DataSet
- c. Use DataView object with each sort
- d. Use datapaging and sort the data.

ANSWER: Use DataView object with each sort

14) In which Event you can set the value of a Theme?

- a. Page_Load
- b. Page_Render
- c. Page_PreRender
- d. Page_PreInit

ANSWER: Page_PreInit

15) You need to initialize some variable only when the first user accesses the application. What should you do?

- a. Add code to the Application_OnStart event handler in the Global.asax file.
- b. Add code to the Application_BeginRequest event handler in the Global.asax
- c. Add code to the Session_OnStart event handler in the Global.asax file
- d. None of the above

ANSWER: Add code to the Application_OnStart event handler in the Global.asax file.

16) Which of the following template supports by Repeater control?

- a. <ItemTemplate>
- b. <AlternatingItemTemplate>
- c. <SeparatorTemplate>
- d. All of the above

ANSWER: All of the above

17) Which of the following works on client side?

- a. ViewState
- b. HiddenField
- c. ControlState
- d. All of the above

ANSWER: All of the above

18) Which of the following works on server side?

- a. ViewState
- b. HiddenField
- c. Application and session
- d. All of the above

ANSWER: Application and session

19) Application_Start event is available in which file?

- a. Global.asax
- b. Local.asax
- c. Web.config
- d. None of the above

ANSWER: Global.asax

20) You have to log the data into database if your session times out. Which event you will use?

- a. Session_End
- b. Application_End
- c. Application_Start
- d. Application_SessionTimeout

ANSWER: Session_End

21) Which of the following is true when referencing master page from content page?

- a. Content pages can reference private indexer in the master page.
- b. Content pages can reference private Properties in the master page.
- c. Contentpages can reference public Properties in the master page.
- d. Content pages can reference private Methods in the master page.

ANSWER: Contentpages can reference public Properties in the master page.

22) If you are using Webparts in your web page then which control is necessary?

- a. WebpartController
- b. WebPartmanager
- c. WebpartZone
- d. None of the above

ANSWER: WebPartmanager

23) What component do you need to enable for a user to add new web parts?

- a. WebpartZone
- b. CatalogZone
- c. WebPartManager
- d. WebManager

ANSWER: CatalogZone

24) Which of the following are required to enable users to change the title of web part?

- a. CatalogZone
- b. TitleZone
- c. EditorZone, AppearanceEditorPart
- d. WebPart

ANSWER: EditorZone, AppearanceEditorPart

25) What is the file extension of web service in ASP.NET?

- a. .ascx
- b. .asmx
- c. .aspx
- d. .docx

ANSWER: .asmx

26) If you want to access a web service method, which attribute it must have?

- a. [WebMethod]
- b. [PageMetod]
- c. [Web.Service]
- d. [WebSupport]

ANSWER: [WebMethod]

27) Range Validator control in ASP.NET supports which type?

- a. Integer
- b. String
- c. Currency
- d. All of the above

ANSWER: All of the above

28) If you are using user control in ASP.NET page which directory will be used?

- a. Register
- b. Assembly
- c. Implements
- d. Aspx

ANSWER: Register

29) A web application can contain _____ .

- a. Only One Web.Config File
- b. Only Two Web.Config File
- c. more than one Web.config file
- d. No file.

ANSWER: more than one Web.config file

30) What is the last event of web page life cycle?

- a. Page_Load
- b. Page_LoadComplete
- c. Page_Finish
- d. Page_Unload

ANSWER: Page_Unload

31) ByDefault ASP.Net SessionID is stored in _____.

- a. Application
- b. Session
- c. Cookies
- d. ViewState

ANSWER: Cookies

SET-13

1. What is the main difference between ASP.NET Web API and ASP.NET MVC?
 - a. Web API is designed for building HTTP services, while MVC is used for building web applications.
 - b. MVC is used for building RESTful services, while Web API is used for web applications.
 - c. Web API uses views and controllers, while MVC uses endpoints and services.
 - d. MVC is used for data access, while Web API is used for authentication.

Answer: a. Web API is designed for building HTTP services, while MVC is used for building web applications.

2. Which attribute is used to define an action method in ASP.NET MVC?
 - a. [ActionName]
 - b. [Route]
 - c. [HttpGet]
 - d. [HttpPost]

Answer: a. [ActionName]

3. In ASP.NET Web API, how do you specify that an action method should respond to HTTP PUT requests?
 - a. By using the [HttpPut] attribute
 - b. By using the [Put] attribute
 - c. By using the [HttpPatch] attribute
 - d. By using the [Patch] attribute

Answer: a. By using the [HttpPut] attribute

4. What is the default route pattern in ASP.NET MVC?
 - a. {controller}/{action}/{id}
 - b. api/{controller}/{id}
 - c. {controller}/{id}
 - d. api/{controller}/{action}

Answer: a. {controller}/{action}/{id}

5. How do you define a Web API route in ASP.NET Core?
 - a. By using the [Route] attribute
 - b. By configuring routes in web.config
 - c. By using the MapRoutes method
 - d. By defining routes in Startup.cs

Answer: a. By using the [Route] attribute

6. What does the [ApiController] attribute do in ASP.NET Core Web API?
 - a. It simplifies controller creation by automatically handling model validation and binding
 - b. It defines routing for Web API controllers
 - c. It configures authentication for Web API
 - d. It manages HTTP request logging

Answer: a. It simplifies controller creation by automatically handling model validation and binding

7. How can you return a 404 Not Found status from a Web API action?
- a. By using `NotFound()`
 - b. By using `HttpNotFound()`
 - c. By returning `null`
 - d. By setting the response status code manually

Answer: a. By using `NotFound()`

8. What is the role of the `ModelState` property in ASP.NET MVC?
- a. To validate and manage model data
 - b. To configure routing
 - c. To handle HTTP requests
 - d. To manage user sessions

Answer: a. To validate and manage model data

9. In ASP.NET Web API, how do you bind a parameter from the query string?
- a. By using the `[FromQuery]` attribute
 - b. By using the `[FromBody]` attribute
 - c. By using the `[FromRoute]` attribute
 - d. By using the `[FromHeader]` attribute

Answer: a. By using the `[FromQuery]` attribute

10. What is the purpose of the `ContentResult` class in ASP.NET Core MVC?
- a. To return content with a specific media type and content
 - b. To handle model validation
 - c. To manage routing
 - d. To configure authentication

Answer: a. To return content with a specific media type and content

11. Which method is used to configure Web API routing in ASP.NET Core?
- a. `app.UseEndpoints(endpoints => { endpoints.MapControllers(); })`
 - b. `app.MapRoutes()`
 - c. `app.ConfigureRoutes()`
 - d. `app.UseRouting()`

Answer: a. `app.UseEndpoints(endpoints => { endpoints.MapControllers(); })`

12. How do you apply a custom route to an action method in ASP.NET MVC?
- a. By using the `[Route]` attribute
 - b. By configuring routes in `web.config`
 - c. By using the `MapRoute` method
 - d. By defining routes in `Startup.cs`

Answer: a. By using the `[Route]` attribute

13. What attribute is used to mark a Web API action method that handles HTTP POST requests?
- a. `[HttpPost]`
 - b. `[Post]`
 - c. `[HttpPut]`
 - d. `[HttpPatch]`

Answer: a. [HttpPost]

14. How do you specify that an action method in ASP.NET MVC should be executed only for HTTP GET requests?

- a. By using the [HttpGet] attribute
- b. By using the [Get] attribute
- c. By using the [HttpPost] attribute
- d. By using the [HttpMethod] attribute

Answer: a. By using the [HttpGet] attribute

15. What is the purpose of the JsonResult class in ASP.NET MVC?

- a. To return JSON-formatted data as a response
- b. To handle form submissions
- c. To manage routing
- d. To handle model binding

Answer: a. To return JSON-formatted data as a response

16. How do you configure default API routing in ASP.NET Web API?

- a. By setting up routes in WebApiConfig.cs
- b. By defining routes in web.config
- c. By configuring routes in Startup.cs
- d. By using the [Route] attribute

Answer: a. By setting up routes in WebApiConfig.cs

17. What is the role of the IActionResult interface in ASP.NET MVC?

- a. To represent different types of action results
- b. To configure API routing
- c. To manage HTTP requests
- d. To handle model validation

Answer: a. To represent different types of action results

18. How can you handle errors globally in an ASP.NET MVC application?

- a. By using exception filters or custom error pages
- b. By handling exceptions in each controller
- c. By configuring error handling in web.config
- d. By using try-catch blocks in Startup.cs

Answer: a. By using exception filters or custom error pages

19. What is the default value of the action parameter in a route template if not specified?

- a. The default value is the name of the action method
- b. The default value is Index
- c. The default value is Home
- d. The default value is Null

Answer: b. The default value is Index

20. In ASP.NET Core, how do you use dependency injection in Web API controllers?

- a. By registering services in Startup.cs and injecting them into controllers
- b. By manually creating instances in controllers

- c. By configuring dependencies in `web.config`
- d. By using static properties

Answer: a. By registering services in `Startup.cs` and injecting them into controllers

21. How do you handle form data in an ASP.NET MVC action method?

- a. By using the model binding system
- b. By parsing the form data manually
- c. By using the `HttpRequest` object
- d. By defining form data in `web.config`

Answer: a. By using the model binding system

22. What method is used to return a 200 OK response with data from a Web API action?

- a. `Ok(data)`
- b. `Success(data)`
- c. `Return(data)`
- d. `Result(data)`

Answer: a. `Ok(data)`

23. How can you use attribute routing in ASP.NET MVC?

- a. By using the `[Route]` attribute on action methods and controllers
- b. By configuring routes in `web.config`
- c. By using the `MapRoute` method in `Startup.cs`
- d. By defining routes in `appsettings.json`

Answer: a. By using the `[Route]` attribute on action methods and controllers

24. What is the role of the `HttpContext` class in ASP.NET MVC?

- a. To provide information about the current HTTP request and response
- b. To configure Web API routing
- c. To manage model validation
- d. To handle dependency injection

Answer: a. To provide information about the current HTTP request and response

25. How do you return a custom error response in ASP.NET Web API?

- a. By using `ContentResult` or `ObjectResult` with custom status codes
- b. By using `BadRequest()` with custom error messages
- c. By returning a custom error page
- d. By configuring errors in `Startup.cs`

Answer: a. By using `ContentResult` or `ObjectResult` with custom status codes

26. What attribute is used to define a Web API action method that responds to HTTP DELETE requests?

- a. `[HttpDelete]`
- b. `[Delete]`
- c. `[HttpRemove]`
- d. `[Remove]`

Answer: a. `[HttpDelete]`

27. How can you manage request headers in ASP.NET Web API?

- a. By using the `HttpRequest` object to access headers
- b. By configuring headers in `web.config`
- c. By setting headers in `Startup.cs`
- d. By defining headers in the request body

Answer: a. By using the `HttpRequest` object to access headers

28. What is the function of the `View` method in an ASP.NET MVC controller?

- a. To return a view that renders HTML to the response
- b. To handle HTTP requests
- c. To manage API routing
- d. To validate model data

Answer: a. To return a view that renders HTML to the response

29. How can you return an empty response with a 204 No Content status code in ASP.NET Web API?

- a. By using `NoContent()`
- b. By using `Empty()`
- c. By using `NotFound()`
- d. By using `Content()`

Answer: a. By using `NoContent()`

30. What does the `HttpPost` attribute signify in ASP.NET Web API?

- a. The action method handles HTTP POST requests
- b. The action method handles HTTP GET requests
- c. The action method handles HTTP PUT requests
- d. The action method handles HTTP DELETE requests

Answer: a. The action method handles HTTP POST requests

31. How do you implement custom validation in ASP.NET MVC?

- a. By creating custom validation attributes and applying them to models
- b. By configuring validation in `web.config`
- c. By using the `ModelState` object
- d. By managing validation in `Startup.cs`

Answer: a. By creating custom validation attributes and applying them to models

32. What is the purpose of the `RedirectToAction` method in ASP.NET MVC?

- a. To redirect the user to a different action method
- b. To handle model validation
- c. To configure routing
- d. To return JSON data

Answer: a. To redirect the user to a different action method

33. How do you return a response with a specific media type in ASP.NET Web API?

- a. By using the `ContentResult` class with the media type specified
- b. By using the `JsonResult` class
- c. By configuring media types in `web.config`
- d. By setting media types in `Startup.cs`

Answer: a. By using the `ContentResult` class with the media type specified

34. What does the `[Route]` attribute do in an ASP.NET MVC controller?

- a. It specifies the URL pattern for the action method
- b. It configures authentication
- c. It manages dependency injection
- d. It handles model binding

Answer: a. It specifies the URL pattern for the action method

35. How can you handle model binding errors in ASP.NET MVC?

- a. By checking the `ModelState.IsValid` property
- b. By configuring errors in `web.config`
- c. By using the `ModelState` object only
- d. By setting error messages in `Startup.cs`

Answer: a. By checking the `ModelState.IsValid` property

36. What is the role of the `ActionResult` class in ASP.NET MVC?

- a. To represent various types of results that an action method can return
- b. To handle HTTP requests
- c. To manage authentication
- d. To configure routing

Answer: a. To represent various types of results that an action method can return

37. How do you define a default API route in ASP.NET Web API?

- a. By configuring routes in `WebApiConfig.cs`
- b. By using the `[Route]` attribute
- c. By defining routes in `web.config`
- d. By setting routes in `Startup.cs`

Answer: a. By configuring routes in `WebApiConfig.cs`

38. What is the purpose of the `ViewBag` property in ASP.NET MVC?

- a. To pass data from a controller to a view dynamically
- b. To manage routing
- c. To handle model validation
- d. To configure Web API routing

Answer: a. To pass data from a controller to a view dynamically

39. How do you handle query parameters in a Web API action method?

- a. By using the `[FromQuery]` attribute
- b. By using the `[FromBody]` attribute
- c. By using the `[FromRoute]` attribute
- d. By configuring parameters in `web.config`

Answer: a. By using the `[FromQuery]` attribute

40. What is the default behavior of the `Redirect` method in ASP.NET MVC?

- a. To redirect the user to a specified URL
- b. To handle model binding
- c. To return JSON data
- d. To manage authentication

Answer: a. To redirect the user to a specified URL

41. How can you implement versioning in Web API?

- a. By using the `ApiVersion` attribute and configuring versioning in `Startup.cs`
- b. By configuring versioning in `web.config`
- c. By defining versions in `Startup.cs`
- d. By using multiple controllers for each version

Answer: a. By using the `ApiVersion` attribute and configuring versioning in `Startup.cs`

42. What is the purpose of the `PartialView` method in ASP.NET MVC?

- a. To render a partial view that can be embedded within a parent view
- b. To handle model validation
- c. To configure routing
- d. To return JSON data

Answer: a. To render a partial view that can be embedded within a parent view

43. How do you handle authentication in Web API?

- a. By configuring authentication schemes and middleware in `Startup.cs`
- b. By using `web.config` for authentication settings
- c. By managing authentication in controllers
- d. By setting authentication headers in action methods

Answer: a. By configuring authentication schemes and middleware in `Startup.cs`

44. What is the purpose of the `IActionFilter` interface in ASP.NET MVC?

- a. To define custom logic that runs before and after an action method executes
- b. To handle API routing
- c. To manage model validation
- d. To configure Web API versioning

Answer: a. To define custom logic that runs before and after an action method executes

45. How can you return a custom error response in an ASP.NET MVC application?

- a. By creating a custom error view or using exception filters
- b. By setting custom errors in `web.config`
- c. By using `HttpResponse` methods directly
- d. By managing errors in `Startup.cs`

Answer: a. By creating a custom error view or using exception filters

46. What is the role of the `ActionContext` class in ASP.NET MVC?

- a. To provide context information about the current HTTP request, action method, and controller
- b. To handle Web API routing
- c. To manage authentication
- d. To configure dependency injection

Answer: a. To provide context information about the current HTTP request, action method, and controller

47. How do you enable CORS (Cross-Origin Resource Sharing) in ASP.NET Core Web API?

- a. By configuring CORS in `Startup.cs` using `services.AddCors()` and `app.UseCors()`
- b. By setting CORS policies in `web.config`

- c. By using the `[EnableCors]` attribute on controllers
- d. By defining CORS settings in `appsettings.json`

Answer: a. By configuring CORS in `Startup.cs` using `services.AddCors()` and `app.UseCors()`

48. What is the purpose of the `JsonResult` class in ASP.NET Core MVC?

- a. To return JSON-formatted data as a response
- b. To handle form submissions
- c. To manage routing
- d. To handle model binding

Answer: a. To return JSON-formatted data as a response

SET-14

1. What is the purpose of global error handling in ASP.NET MVC?
To provide a centralized mechanism for handling exceptions that occur throughout the application
2. Which file is typically used to configure global error handling in ASP.NET MVC?
Global.asax
3. How can you handle unhandled exceptions globally in an ASP.NET MVC application?
By overriding the `Application_Error` method in `Global.asax`
4. In ASP.NET Core, how do you configure global exception handling middleware?
By using the `UseExceptionHandler` middleware in the `Startup.Configure` method
5. What is the purpose of the `UseExceptionHandler` middleware in ASP.NET Core?
To specify a custom error handling path or method for handling exceptions globally
6. Which method in ASP.NET MVC can be used to log detailed error information during global error handling?
`Exception` property in the `Application_Error` method
7. How can you specify a custom error page for unhandled exceptions in ASP.NET Core?
By configuring the path in the `UseExceptionHandler` middleware
8. In ASP.NET MVC, where should custom error handling logic be placed?
In the `Application_Error` method in the `Global.asax` file
9. What attribute can be used in ASP.NET MVC to handle exceptions on a per-controller or per-action basis?
`[HandleError]` attribute
10. How do you configure custom error handling in the `web.config` file for ASP.NET MVC?
By setting the `mode` attribute of the `<customErrors>` element to `On` or `RemoteOnly`
11. What is the effect of setting the `mode` attribute of the `<customErrors>` element to `RemoteOnly`?
Custom error pages are shown to remote users, but local users see detailed error information
12. In ASP.NET Core, how can you handle HTTP status codes like 404 and 500 globally?
By using the `UseStatusCodePages` middleware and specifying the path for error pages
13. What is the role of the `ExceptionHandler` in ASP.NET Core's `UseExceptionHandler` middleware?
It defines the endpoint or method to handle exceptions
14. How can you add logging to global error handling in ASP.NET Core?
By using a logging framework such as `ILogger` in the exception handling middleware
15. What approach should be used for error handling in ASP.NET MVC to ensure sensitive information is not exposed to end-users?
Display user-friendly error messages without exposing stack traces or detailed exception information
16. In ASP.NET Core, how can you return a JSON response for errors in global error handling?
By configuring the `UseExceptionHandler` middleware to use a custom JSON result for

exceptions

17. How can you globally handle HTTP status codes like 404 and 500 in an ASP.NET MVC application?
By configuring custom error pages in the `web.config` file
18. Which method is used to handle exceptions globally in ASP.NET Core and redirect to a custom error page?
`app.UseExceptionHandler("/Error")`
19. What should be included in a custom error page to provide a better user experience?
A friendly message and possibly a link to return to the home page
20. How can you handle exceptions for a specific HTTP status code in ASP.NET Core?
By using the `UseStatusCodePages` middleware with the appropriate configuration
21. What is the role of the `ExceptionHandlerPathFeature` interface in ASP.NET Core?
To provide details about the exception and the path where the exception occurred
22. How can you ensure that your global error handling in ASP.NET MVC does not affect performance?
By logging errors efficiently and displaying user-friendly error pages without heavy processing
23. What is a common practice for handling exceptions globally in an ASP.NET Core Web API?
Returning a standardized error response format in JSON
24. In ASP.NET MVC, how can you prevent the application from displaying detailed error information to end-users in production?
By setting the `customErrors` mode to `On` in the `web.config` file
25. What is the primary use of the `HandleError` attribute in ASP.NET MVC?
To specify a view to display when an exception occurs in a controller or action
26. In ASP.NET Core, how do you configure the `ExceptionHandler` middleware to handle exceptions?
By passing a path to a custom error handling endpoint or method
27. How can you globally handle exceptions in ASP.NET Core and provide a user-friendly error page?
By using the `ExceptionHandler` middleware with a specified path for the error page
28. How can you configure global error handling in ASP.NET Core to include logging?
By injecting an `ILogger` service into the error handling middleware
29. What is the effect of setting the `customErrors` mode to `Off` in the `web.config` file of an ASP.NET MVC application?
Detailed error information is shown to all users, which is useful for debugging but not for production
30. How can you handle errors from controllers and actions in ASP.NET Core?
By using the `ExceptionHandler` middleware and creating a custom error handling page
31. What is the role of `HttpContext.Response.StatusCode` in global error handling in ASP.NET Core?

To set or retrieve the HTTP status code returned in the response

32. How can you ensure that your global error handling logic does not expose sensitive data in ASP.NET MVC?

By creating generic error messages and not including exception details in error pages

33. What middleware can be used in ASP.NET Core to handle status codes like 404?

`UseStatusCodePages` middleware

34. How do you test custom global error handling in ASP.NET Core during development?

By simulating exceptions and verifying the behavior of the custom error handling middleware

35. How can you handle exceptions in a global manner in an ASP.NET MVC application to ensure consistent error handling?

By using the `Application_Error` method in `Global.asax`

36. What is the benefit of using middleware for global error handling in ASP.NET Core?

It provides a centralized and consistent way to handle exceptions across the application

37. What method is used to log errors in a global error handling scenario in ASP.NET MVC?

The `Logger` class or any custom logging implementation within the `Application_Error` method

38. In ASP.NET Core, how can you ensure that error pages are only shown in a production environment?

By using the `UseExceptionHandler` middleware conditionally based on the environment

39. What is the role of `app.UseStatusCodePages` in ASP.NET Core?

To provide a way to handle and customize responses for HTTP status codes like 404

40. How can you configure global error handling in ASP.NET MVC to use a different error view for different types of exceptions?

By using the `[HandleError]` attribute with different view names

41. In ASP.NET Core, how can you customize the response format for errors?

By creating a custom middleware or endpoint in the `UseExceptionHandler` configuration

42. What configuration in the `web.config` file controls custom error pages for specific HTTP status codes in ASP.NET MVC?

The `<httpErrors>` section

43. What should be considered when designing custom error pages for a global error handling strategy?

User experience, security, and consistency with the application's design

44. How can you use `app.UseExceptionHandler` to redirect users to a specific error page in ASP.NET Core?

By specifying the path to the custom error page in the middleware configuration

45. In ASP.NET MVC, what is the purpose of the `Error` view in the `Views/Shared` folder?

To provide a consistent error page view used by the `[HandleError]` attribute

46. What is the impact of the `customErrors` setting in `web.config` on global error handling in ASP.NET MVC?
It determines whether custom error pages or detailed error information is shown
47. How do you handle exceptions globally in ASP.NET Core applications while ensuring proper logging?
By using `ILogger` within the `UseExceptionHandler` middleware
48. What is the purpose of the `Application_Error` method in the `Global.asax` file?
To handle unhandled exceptions and perform custom error handling for the entire application
49. How can you configure custom error handling in ASP.NET MVC to redirect to a specific error page for 500 Internal Server Errors?
By setting the `defaultRedirect` attribute in the `<customErrors>` section of the `web.config` file
50. How can you make sure your global error handling in ASP.NET Core is effective in production?
By thoroughly testing the error handling logic and ensuring it does not expose sensitive information
51. What does the `UseExceptionHandler` middleware configuration allow you to specify in ASP.NET Core?
The path to a custom error handling endpoint or method for managing exceptions
52. How can you ensure that custom error pages are used for HTTP errors like 404 in an ASP.NET Core application?
By configuring the `UseStatusCodePages` middleware with the appropriate paths and handling logic
53. What is the effect of using `app.UseExceptionHandler` without specifying a path?
It uses a default error handling mechanism provided by ASP.NET Core
54. How can you handle global exceptions in an ASP.NET Core Web API and return a custom JSON error response?
By using `app.UseExceptionHandler` with a custom error handling middleware that returns JSON responses

SET-15

1. **What does MVC stand for in ASP.NET?**
Model-View-Controller
2. **Which component of MVC handles the data logic and business rules?**
Model
3. **Which component of MVC is responsible for rendering the user interface?**
View
4. **In ASP.NET MVC, which component is responsible for handling user input and updating the Model?**
Controller
5. **Which file type is commonly used for Views in ASP.NET MVC?**
.cshtml
6. **In MVC, where is the routing configuration typically found?**
RouteConfig.cs
7. **How does ASP.NET MVC handle requests from the client?**
By mapping URL patterns to controllers and actions
8. **What is the default convention for the naming of controllers in ASP.NET MVC?**
Controller suffix (e.g., HomeController)
9. **Which attribute in ASP.NET MVC is used to denote a method as an action method?**
[HttpGet] or [HttpPost]
10. **How can you pass data from a Controller to a View in ASP.NET MVC?**
Using ViewBag, ViewData, or a strongly-typed Model
11. **What is the primary purpose of the ViewBag in ASP.NET MVC?**
To dynamically pass data from the Controller to the View
12. **What is the difference between ViewBag and ViewData?**
ViewBag uses dynamic properties, while ViewData uses a dictionary
13. **In ASP.NET MVC, how can you create a strongly-typed view?**
By passing a Model object to the View and using @model directive
14. **What is the role of the RouteConfig class in MVC?**
To define URL routing patterns for the application
15. **Which method of the RouteConfig class is used to configure routes?**
RegisterRoutes
16. **In ASP.NET MVC, what is the purpose of the ActionResult class?**
To represent the result of an action method and render appropriate content
17. **What is the use of the PartialView method in ASP.NET MVC?**
To render a partial view within a parent view

18. How can you return a JSON result from an action method in ASP.NET MVC?

By using `Json()` method of `Controller`

19. What does the `HtmlHelper` class provide in ASP.NET MVC?

Helper methods for rendering HTML elements in Views

20. How can you implement form validation in ASP.NET MVC?

By using data annotations in the Model and `HtmlHelper` methods in Views

21. What is the default value of the `TempData` dictionary?

It is a dictionary used to pass data from one request to another and is cleared after the next request

22. In MVC, what is the role of `ModelState`?

To store state information and validation errors related to the Model

23. What is a `ViewModel` in ASP.NET MVC?

A class that contains data specific to a View, often combining multiple Models

24. How can you customize error handling in ASP.NET MVC?

By using custom error pages, `HandleError` attribute, or global error handling in `Global.asax`

25. What is the purpose of `Areas` in ASP.NET MVC?

To partition a large application into smaller, manageable sections

26. Which file is used to configure global settings and routes in ASP.NET MVC?

`Global.asax`

27. What is the purpose of the `ControllerBase` class in MVC?

To provide basic functionalities required for all controllers

28. Which attribute is used to restrict access to an action method based on user roles?

`[Authorize]`

29. What is the function of `IActionResult` interface in ASP.NET MVC?

To define the result type of an action method

30. How can you implement dependency injection in ASP.NET MVC?

By configuring services in `Startup.cs` and using constructor injection in controllers

31. What is `RedirectToAction` used for in ASP.NET MVC?

To redirect the user to a different action method

32. What are `TempData` and `Session` used for in ASP.NET MVC?

`TempData` is used for short-lived data between requests, while `Session` is used for longer-lived user-specific data

33. How can you create a custom `ActionFilter` in ASP.NET MVC?

By inheriting from `ActionFilterAttribute` and overriding its methods

34. What is the purpose of the `ModelBinder` in ASP.NET MVC?

To bind request data to model properties

35. How can you use `Html.Partial` in a View?

To render a partial view from within another view

36. **What is the difference between `Html.RenderPartial` and `Html.Partial`?**
`Html.RenderPartial` writes directly to the response stream, while `Html.Partial` returns a string
37. **How do you implement authentication in ASP.NET MVC?**
By using the Authentication middleware or custom authentication logic
38. **What is the role of `ViewModel` in data-binding?**
To aggregate data from multiple models for use in a View
39. **How can you use `@Html.Action` in a View?**
To invoke a child action and render its result inline within the parent view
40. **How do you configure routing in ASP.NET MVC?**
By defining routes in `RouteConfig.cs` Or `Startup.cs`
41. **What does the `ActionName` attribute do in ASP.NET MVC?**
It allows specifying a different name for an action method
42. **What is the purpose of `ActionFilters` in MVC?**
To add pre-processing and post-processing logic to action methods
43. **How can you create a new instance of a `ViewModel` in an action method?**
By initializing the `ViewModel` object and passing it to the View
44. **What is the purpose of the `HttpPost` attribute in MVC?**
To specify that an action method should respond to HTTP POST requests
45. **How can you use `Html.BeginForm` in a View?**
To create an HTML form that posts data to a specified action method
46. **What is the role of `HtmlHelper` extension methods?**
To provide reusable helper methods for generating HTML in Views
47. **What is `ContentResult` used for in an MVC action method?**
To return plain text content as a result
48. **How do you use `ViewData` in a View?**
By accessing it using key-value pairs
49. **What is the purpose of `ModelState.IsValid`?**
To check whether the model passed validation rules
50. **How can you implement a custom route in ASP.NET MVC?**
By defining it in `RouteConfig.cs` with specific URL patterns and constraints
51. **What does `Html.EditorFor` do in ASP.NET MVC?**
Generates HTML markup for editing a property of the model
52. **How can you override the default route constraints in ASP.NET MVC?**
By specifying custom constraints in the route configuration
53. **What is `ViewBag` typically used for?**
To pass dynamic data from the Controller to the View

54. **How can you make a View strongly-typed to a specific Model?**
By declaring the model type at the top of the View with `@model`
55. **What does `RedirectToRoute` method do in an action method?**
Redirects the user to a different route based on route values
56. **How do you use `Html.ActionLink` in a View?**
To generate a hyperlink that points to a specific action method
57. **What is `PartialViewResult` used for in ASP.NET MVC?**
To return a partial view result from an action method
58. **What is the use of `ActionFilterAttribute`?**
To create custom logic that can be applied to action methods before or after execution
59. **What does `ContentResult` return in an MVC action method?**
Plain text or HTML content directly to the response
60. **What is the main difference between `Redirect` and `RedirectToAction`?**
`Redirect` sends a raw URL to the client, while `RedirectToAction` redirects to a specified action method
61. **How do you handle form submissions in ASP.NET MVC?**
By creating action methods that accept form data and process it accordingly
62. **How can you use `Html.DisplayFor` in a View?**
To render HTML for displaying a model property
63. **What is `ViewData` typically used for?**
To pass data from the Controller to the View in the form of a dictionary
64. **What is the role of the `BaseController` class in MVC applications?**
To provide common functionality for all controllers in the application
65. **How do you handle exceptions in an MVC application?**
By using exception handling middleware or try-catch blocks in action methods
66. **What is the purpose of the `Layout` property in a View?**
To define a common layout page for all or selected Views
67. **How can you use `Html.TextBoxFor` in a View?**
To generate an HTML text input element bound to a model property
68. Which file is typically used to configure global error handling in ASP.NET MVC?
`Global.asax`
69. How can you handle unhandled exceptions globally in an ASP.NET MVC application?
By overriding the `Application_Error` method in `Global.asax`
70. In ASP.NET Core, how do you configure global exception handling middleware?
By using the `UseExceptionHandler` middleware in the `Startup.Configure` method
71. What is the purpose of the `UseExceptionHandler` middleware in ASP.NET Core?
To specify a custom error handling path or method for handling exceptions globally

72. Which method in ASP.NET MVC can be used to log detailed error information during global error handling?
Exception property in the `Application_Error` method
73. How can you specify a custom error page for unhandled exceptions in ASP.NET Core?
By configuring the path in the `UseExceptionHandler` middleware
74. In ASP.NET MVC, where should custom error handling logic be placed?
In the `Application_Error` method in the `Global.asax` file
75. What attribute can be used in ASP.NET MVC to handle exceptions on a per-controller or per-action basis?
`[HandleError]` attribute
76. How do you configure custom error handling in the `web.config` file for ASP.NET MVC?
By setting the `mode` attribute of the `<customErrors>` element to `On` or `RemoteOnly`
77. What is the effect of setting the `mode` attribute of the `<customErrors>` element to `RemoteOnly`?
Custom error pages are shown to remote users, but local users see detailed error information
78. In ASP.NET Core, how can you handle HTTP status codes like 404 and 500 globally?
By using the `UseStatusCodePages` middleware and specifying the path for error pages
79. What is the role of the `ExceptionHandler` in ASP.NET Core's `UseExceptionHandler` middleware?
It defines the endpoint or method to handle exceptions
80. How can you add logging to global error handling in ASP.NET Core?
By using a logging framework such as `ILogger` in the exception handling middleware
81. What approach should be used for error handling in ASP.NET MVC to ensure sensitive information is not exposed to end-users?
Display user-friendly error messages without exposing stack traces or detailed exception information
82. In ASP.NET Core, how can you return a JSON response for errors in global error handling?
By configuring the `UseExceptionHandler` middleware to use a custom JSON result for exceptions
83. How can you globally handle HTTP status codes like 404 and 500 in an ASP.NET MVC application?
By configuring custom error pages in the `web.config` file
84. Which method is used to handle exceptions globally in ASP.NET Core and redirect to a custom error page?
`app.UseExceptionHandler("/Error")`
85. What should be included in a custom error page to provide a better user experience?
A friendly message and possibly a link to return to the home page
86. How can you handle exceptions for a specific HTTP status code in ASP.NET Core?
By using the `UseStatusCodePages` middleware with the appropriate configuration

87. What is the role of the `ExceptionHandlerPathFeature` interface in ASP.NET Core?
To provide details about the exception and the path where the exception occurred
88. How can you ensure that your global error handling in ASP.NET MVC does not affect performance?
By logging errors efficiently and displaying user-friendly error pages without heavy processing
89. What is a common practice for handling exceptions globally in an ASP.NET Core Web API?
Returning a standardized error response format in JSON
90. In ASP.NET MVC, how can you prevent the application from displaying detailed error information to end-users in production?
By setting the `customErrors` mode to `On` in the `web.config` file
91. What is the primary use of the `HandleError` attribute in ASP.NET MVC?
To specify a view to display when an exception occurs in a controller or action
92. In ASP.NET Core, how do you configure the `ExceptionHandler` middleware to handle exceptions?
By passing a path to a custom error handling endpoint or method
93. How can you globally handle exceptions in ASP.NET Core and provide a user-friendly error page?
By using the `ExceptionHandler` middleware with a specified path for the error page
94. How can you configure global error handling in ASP.NET Core to include logging?
By injecting an `ILogger` service into the error handling middleware
95. What is the effect of setting the `customErrors` mode to `Off` in the `web.config` file of an ASP.NET MVC application?
Detailed error information is shown to all users, which is useful for debugging but not for production
96. How can you handle errors from controllers and actions in ASP.NET Core?
By using the `ExceptionHandler` middleware and creating a custom error handling page
97. What is the role of `HttpContext.Response.StatusCode` in global error handling in ASP.NET Core?
To set or retrieve the HTTP status code returned in the response
98. How can you ensure that your global error handling logic does not expose sensitive data in ASP.NET MVC?
By creating generic error messages and not including exception details in error pages
99. What middleware can be used in ASP.NET Core to handle status codes like 404?
`UseStatusCodePages` middleware
100. How do you test custom global error handling in ASP.NET Core during development?
By simulating exceptions and verifying the behavior of the custom error handling

middleware

101. How can you handle exceptions in a global manner in an ASP.NET MVC application to ensure consistent error handling?
By using the `Application_Error` method in `Global.asax`
102. What is the benefit of using middleware for global error handling in ASP.NET Core?
It provides a centralized and consistent way to handle exceptions across the application
103. What method is used to log errors in a global error handling scenario in ASP.NET MVC?
The `Logger` class or any custom logging implementation within the `Application_Error` method
104. In ASP.NET Core, how can you ensure that error pages are only shown in a production environment?
By using the `UseExceptionHandler` middleware conditionally based on the environment
105. What is the role of `app.UseStatusCodePages` in ASP.NET Core?
To provide a way to handle and customize responses for HTTP status codes like 404
106. How can you configure global error handling in ASP.NET MVC to use a different error view for different types of exceptions?
By using the `[HandleError]` attribute with different view names
107. In ASP.NET Core, how can you customize the response format for errors?
By creating a custom middleware or endpoint in the `UseExceptionHandler` configuration
108. What configuration in the `web.config` file controls custom error pages for specific HTTP status codes in ASP.NET MVC?
The `<httpErrors>` section
109. What should be considered when designing custom error pages for a global error handling strategy?
User experience, security, and consistency with the application's design
110. How can you use `app.UseExceptionHandler` to redirect users to a specific error page in ASP.NET Core?
By specifying the path to the custom error page in the middleware configuration
111. In ASP.NET MVC, what is the purpose of the `Error` view in the `Views/Shared` folder?
To provide a consistent error page view used by the `[HandleError]` attribute
112. What is the impact of the `customErrors` setting in `web.config` on global error handling in ASP.NET MVC?
It determines whether custom error pages or detailed error information is shown
113. How do you handle exceptions globally in ASP.NET Core applications while ensuring proper logging?
By using `ILogger` within the `UseExceptionHandler` middleware
114. What is the purpose of the `Application_Error` method in the `Global.asax` file?
To handle unhandled exceptions and perform custom error handling for the entire application

115. How can you configure custom error handling in ASP.NET MVC to redirect to a specific error page for 500 Internal Server Errors?
By setting the `defaultRedirect` attribute in the `<customErrors>` section of the `web.config` file
116. How can you make sure your global error handling in ASP.NET Core is effective in production?
By thoroughly testing the error handling logic and ensuring it does not expose sensitive information
117. What does the `UseExceptionHandler` middleware configuration allow you to specify in ASP.NET Core?
The path to a custom error handling endpoint or method for managing exceptions
118. How can you ensure that custom error pages are used for HTTP errors like 404 in an ASP.NET Core application?
By configuring the `UseStatusCodePages` middleware with the appropriate paths and handling logic
119. What is the effect of using `app.UseExceptionHandler` without specifying a path?
It uses a default error handling mechanism provided by ASP.NET Core

SET-16

1. What does MVC stand for in ASP.NET MVC?
A) Model View Control
B) Model View Controller
C) Module View Controller
D) Model View Config
Answer: B) Model View Controller
2. Which component of MVC handles user input?
A) Model
B) View
C) Controller
D) Database
Answer: C) Controller
3. In ASP.NET MVC, which component is responsible for the application's business logic?
A) View
B) Model
C) Controller
D) Route
Answer: B) Model
4. Which method in a controller is invoked by default in ASP.NET MVC?
A) Main()
B) Index()
C) Start()
D) Init()
Answer: B) Index()
5. Which file is used to define routes in an ASP.NET MVC application?
A) RouteConfig.cs
B) Startup.cs
C) Web.config
D) AppSettings.json
Answer: A) RouteConfig.cs
6. In ASP.NET MVC, what is a View?
A) A component that handles user input
B) A component that renders the user interface
C) A class that handles database connections
D) A controller method
Answer: B) A component that renders the user interface
7. What is the purpose of the `ViewBag` in ASP.NET MVC?
A) To store temporary data for the current request
B) To manage session state
C) To handle routing
D) To store permanent data
Answer: A) To store temporary data for the current request
8. Which of the following is NOT a return type of a controller action in ASP.NET MVC?
A) ActionResult
B) JsonResult
C) FileResult
D) DataTable
Answer: D) DataTable
9. In ASP.NET MVC, what is the role of the `ActionResult` class?
A) To define a model
B) To return a result from a controller action
C) To process user inputs

D) To handle routing

Answer: B) To return a result from a controller action

10. Which HTML helper is used to create a form in ASP.NET MVC?

A) Html.TextBox

B) Html.Label

C) Html.BeginForm

D) Html.Form

Answer: C) Html.BeginForm

11. What does Scaffold mean in ASP.NET MVC?

A) Automatically generating code

B) Writing code manually

C) Optimizing the application

D) Debugging the application

Answer: A) Automatically generating code

12. Which feature allows you to bind form values to a model in ASP.NET MVC?

A) Model Binding

B) ViewData

C) ViewBag

D) Routing

Answer: A) Model Binding

13. What is the use of TempData in ASP.NET MVC?

A) To persist data between requests

B) To store data temporarily between two consecutive requests

C) To manage session data

D) To store user inputs

Answer: B) To store data temporarily between two consecutive requests

14. Which method is used to pass data from a controller to a view in ASP.NET MVC?

A) Redirect

B) RedirectToAction

C) View

D) None of the above

Answer: C) View

15. What is Razor in ASP.NET MVC?

A) A database technology

B) A templating engine for creating dynamic views

C) A CSS framework

D) A JavaScript library

Answer: B) A templating engine for creating dynamic views

16. How do you define a route in ASP.NET MVC?

A) In the Web.config file

B) In the RouteConfig.cs file

C) In the View file

D) In the Global.asax file

Answer: B) In the RouteConfig.cs file

17. Which method is used to return JSON data from a controller in ASP.NET MVC?

A) Json()

B) ReturnJson()

C) View()

D) Data()

Answer: A) Json()

18. Which method is used to handle GET requests in ASP.NET MVC?

A) [HttpPost]

B) [HttpGet]

C) [HttpPut]

D) [HttpDelete]

Answer: B) [HttpGet]

19. What is the default folder structure for views in ASP.NET MVC?

A) Views/ControllerName/ActionName.cshtml

B) ControllerName/Views/ActionName.cshtml

C) Views/ActionName/ControllerName.cshtml

D) Views/ActionName.cshtml

Answer: A) Views/ControllerName/ActionName.cshtml

20. Which helper method is used to create a link in ASP.NET MVC?

A) Html.ActionLink

B) Html.HyperLink

C) Html.Link

D) Html.Url

Answer: A) Html.ActionLink

21. What does ViewData in ASP.NET MVC do?

A) Stores data for the current request

B) Stores data for the entire session

C) Persists data across multiple requests

D) Stores data permanently

Answer: A) Stores data for the current request

22. Which feature in ASP.NET MVC allows client-side validation of forms?

A) Data Annotations

B) ViewBag

C) Partial Views

D) Routing

Answer: A) Data Annotations

23. In ASP.NET MVC, how do you return a different view from an action method?

A) Return View("ViewName")

B) Redirect("ViewName")

C) Render("ViewName")

D) Action("ViewName")

Answer: A) Return View("ViewName")

24. What is the purpose of @Html.Partial() in ASP.NET MVC?

A) To render a portion of a view

B) To create a controller

C) To manage routing

D) To return a model

Answer: A) To render a portion of a view

25. Which method is used to render a view without a layout in ASP.NET MVC?

A) return View();

B) return PartialView();

C) return Json();

D) return EmptyView();

Answer: B) return PartialView();

26. Which attribute in ASP.NET MVC is used to restrict access to a controller or action?

A) [HttpPost]

B) [Authorize]

C) [HttpGet]

D) [AllowAnonymous]

Answer: B) [Authorize]

27. What is the purpose of @Html.ValidationMessageFor() in ASP.NET MVC?

A) Display error messages for a specific field

B) Create a validation form

C) Render the form controls

D) Redirect the user

Answer: A) Display error messages for a specific field

28. Which of the following is NOT a valid return type in ASP.NET MVC?

A) ViewResult

B) FileResult

C) PartialViewResult

D) HtmlResult

Answer: D) HtmlResult

29. What is the role of ActionFilters in ASP.NET MVC?

A) To apply cross-cutting concerns like logging or authorization

B) To manage form submissions

C) To optimize application performance

D) To handle exceptions

Answer: A) To apply cross-cutting concerns like logging or authorization

30. Which action filter is used to cache the output of a controller action?

A) OutputCache

B) Authorize

C) HandleError

D) RequireHttps

Answer: A) OutputCache

31. How can you inject a service into a controller in ASP.NET MVC?

A) By using constructor injection

B) By using the ViewBag

C) By using ViewData

D) By using Model Binding

Answer: A) By using constructor injection

32. Which file is responsible for configuring dependency injection in ASP.NET MVC?

A) Startup.cs

B) RouteConfig.cs

C) Web.config

D) App.config

Answer: A) Startup.cs

33. How do you handle errors globally in ASP.NET MVC?

A) By using the Global.asax file

B) By using a custom error handler in Web.config

C) By using an exception filter

D) By overriding the OnException method in a controller

Answer: C) By using an exception filter

34. Which view engine is commonly used in ASP.NET MVC?

A) Razor

B) PHP

C) JSP

D) Python

Answer: A) Razor

35. What does @model keyword do in a Razor view?

A) Declares the type of model being passed to the view

B) Defines a new model

C) Imports a controller

D) Declares a method

Answer: A) Declares the type of model being passed to the view

36. What is the purpose of @Html.LabelFor() in ASP.NET MVC?

A) To generate a label for a specific model property

B) To create a button

C) To submit a form

D) To display validation messages

Answer: A) To generate a label for a specific model property

37. Which attribute is used for server-side form validation in ASP.NET MVC?

A) [ValidateAntiForgeryToken]

B) [HttpPost]

C) [Authorize]

D) [AllowAnonymous]

Answer: A) [ValidateAntiForgeryToken]

38. What is Unobtrusive JavaScript in ASP.NET MVC?

A) JavaScript that doesn't interfere with HTML

B) JavaScript that handles all server-side validation

C) JavaScript code injected directly into the controller

D) A technique that uses data attributes for client-side validation

Answer: D) A technique that uses data attributes for client-side validation

39. Which method is used to update a record in ASP.NET MVC?

A) Update()

B) Save()

C) Edit()

D) Submit()

Answer: C) Edit()

40. What is ViewStart.cshtml in ASP.NET MVC?

A) A file that defines the layout for all views in an application

B) A controller file

C) A JavaScript file

D) A routing file

Answer: A) A file that defines the layout for all views in an application

41. What is the purpose of ViewBag in ASP.NET MVC?

A) To store data between requests

B) To pass data from controller to view

C) To handle routing

D) To manage model validation

Answer: B) To pass data from controller to view

42. Which of the following is the default view engine in ASP.NET MVC?

A) Razor

B) WebForms

C) JSP

D) Blade

Answer: A) Razor

43. What is the role of RouteConfig in ASP.NET MVC?

A) To define URL routing patterns

B) To connect the application to the database

C) To manage controller actions

D) To handle errors

Answer: A) To define URL routing patterns

44. What does HttpPost attribute indicate in ASP.NET MVC?

A) The action method responds to HTTP POST requests

B) The action method handles GET requests

C) The method sends data to the client

D) The method processes routing

Answer: A) The action method responds to HTTP POST requests

45. Which of the following is used to return a partial view in ASP.NET MVC?

A) return PartialView()

B) return View()

C) return Json()

D) return File()

Answer: A) return PartialView()

46. What does TempData do in ASP.NET MVC?

- A) Stores data temporarily and is available for the next request only
- B) Stores data permanently in the session
- C) Shares data between different controllers
- D) Manages the model state

Answer: A) Stores data temporarily and is available for the next request only

47. What is the purpose of @Html.TextBoxFor() in ASP.NET MVC?

- A) To create an input element for a model property
- B) To display a label
- C) To handle form validation
- D) To display data

SET-17

1. What is the purpose of routing in ASP.NET MVC?
 - a. To map incoming requests to controller actions
 - b. To handle database connections
 - c. To define view templates
 - d. To manage user authentication

Answer: a. To map incoming requests to controller actions

2. What method is used to define routes in ASP.NET MVC?
 - a. RouteConfig.RegisterRoutes()
 - b. RouteManager.ConfigureRoutes()
 - c. RouteDefinition.AddRoutes()
 - d. RouteBuilder.BuildRoutes()

Answer: a. RouteConfig.RegisterRoutes()

3. How do you specify a route URL pattern in ASP.NET MVC?
 - a. By using the Route attribute
 - b. By configuring routes in RouteConfig
 - c. By setting URL patterns in web.config
 - d. By using the RouteBuilder class

Answer: b. By configuring routes in RouteConfig

4. What is the default route URL pattern in ASP.NET MVC?
 - a. "{controller}/{action}/{id}"
 - b. "{controller}/{id}/{action}"
 - c. "{action}/{controller}/{id}"
 - d. "{id}/{controller}/{action}"

Answer: a. "{controller}/{action}/{id}"

5. How do you specify default values for route parameters?
 - a. By using defaults in the Route method
 - b. By setting defaults in web.config
 - c. By defining parameters in the controller
 - d. By configuring default values in RouteData

Answer: a. By using defaults in the Route method

6. What attribute is used to define a route on an action method?
 - a. [Route]
 - b. [Url]
 - c. [Path]
 - d. [RouteTemplate]

Answer: a. [Route]

7. What is the purpose of route constraints?
 - a. To enforce rules on route parameters
 - b. To specify the order of routes
 - c. To define default values
 - d. To handle URL encoding

Answer: a. To enforce rules on route parameters

8. How do you define a custom route constraint in ASP.NET MVC?
- a. By implementing the `IRouteConstraint` interface
 - b. By using the `[Constraint]` attribute
 - c. By configuring constraints in `RouteConfig`
 - d. By defining constraints in `web.config`

Answer: a. By implementing the `IRouteConstraint` interface

9. What method is used to add a new route to the routing table?
- a. `RouteCollection.Add()`
 - b. `RouteTable.MapRoute()`
 - c. `RouteManager.Add()`
 - d. `RouteDefinition.Add()`

Answer: b. `RouteTable.MapRoute()`

10. How do you specify a route with optional parameters?
- a. By using the question mark (?) in the URL pattern
 - b. By defining parameters in `RouteConfig`
 - c. By using the `Route` attribute
 - d. By setting optional parameters in the controller

Answer: a. By using the question mark (?) in the URL pattern

11. What is the role of the `RouteData` class in routing?
- a. To hold route information for a request
 - b. To define route patterns
 - c. To configure default values
 - d. To manage route constraints

Answer: a. To hold route information for a request

12. How do you handle route parameters in an action method?
- a. By including them as parameters in the action method
 - b. By using `ViewBag` to pass parameters
 - c. By setting them in `RouteConfig`
 - d. By defining them in the route pattern

Answer: a. By including them as parameters in the action method

13. What is a route prefix and how is it used?
- a. A common URL pattern applied to all routes in a controller
 - b. A default value for route parameters
 - c. A constraint applied to route parameters
 - d. A method to define multiple routes

Answer: a. A common URL pattern applied to all routes in a controller

14. How do you specify a route constraint for a route parameter?
- a. By using the `constraints` parameter in the `MapRoute` method
 - b. By setting constraints in the `Route` attribute
 - c. By defining constraints in `RouteConfig`
 - d. By using the `RouteConstraint` class

Answer: a. By using the constraints parameter in the MapRoute method

15. What is the purpose of the [RoutePrefix] attribute?

- a. To define a common route prefix for all action methods in a controller
- b. To set default values for route parameters
- c. To specify the HTTP methods for a route
- d. To handle route errors

Answer: a. To define a common route prefix for all action methods in a controller

16. How do you configure a route that handles a specific HTTP method?

- a. By using the [HttpGet] or [HttpPost] attributes
- b. By defining the HTTP method in RouteConfig
- c. By specifying the method in the Route attribute
- d. By setting HTTP methods in the controller

Answer: a. By using the [HttpGet] or [HttpPost] attributes

17. What is the role of the RouteCollection class in ASP.NET MVC routing?

- a. To hold and manage a collection of routes
- b. To define route patterns
- c. To handle route constraints
- d. To set default values for routes

Answer: a. To hold and manage a collection of routes

18. How do you redirect to a specific route from an action method?

- a. By using RedirectToAction()
- b. By using RedirectToRoute()
- c. By using Redirect()
- d. By using RouteRedirect()

Answer: b. By using RedirectToRoute()

19. What is a catch-all parameter in routing?

- a. A parameter that matches any value in the route URL
- b. A default parameter for all routes
- c. A parameter that handles multiple types of data
- d. A parameter that enforces route constraints

Answer: a. A parameter that matches any value in the route URL

20. How do you create a route that matches a specific pattern but ignores case?

- a. By using the IgnoreCase constraint in RouteConfig
- b. By defining the pattern in the Route attribute
- c. By using a custom route constraint
- d. By specifying the case-insensitive option in RouteConfig

Answer: a. By using the IgnoreCase constraint in RouteConfig

21. What is the role of the RouteValueDictionary class in routing?

- a. To hold route values and parameters
- b. To define route patterns
- c. To manage route constraints
- d. To set default values for routes

Answer: a. To hold route values and parameters

22. How do you specify a route constraint for a route parameter?
- a. By using the constraints parameter in the MapRoute method
 - b. By using the [Constraint] attribute on the route
 - c. By setting constraints in the RouteConfig class
 - d. By defining constraints in the Route attribute

Answer: a. By using the constraints parameter in the MapRoute method

23. What is the purpose of the RouteDebug class in routing?
- a. To help with debugging routing issues
 - b. To configure custom routes
 - c. To handle route constraints
 - d. To manage route values

Answer: a. To help with debugging routing issues

24. How do you configure custom route patterns in ASP.NET MVC?
- a. By adding routes to RouteConfig
 - b. By defining patterns in the Route attribute
 - c. By using the RouteBuilder class
 - d. By configuring patterns in web.config

Answer: a. By adding routes to RouteConfig

25. What does the term “route precedence” refer to?
- a. The order in which routes are matched
 - b. The priority of route constraints
 - c. The default values for routes
 - d. The URL pattern for routes

Answer: a. The order in which routes are matched

26. How do you handle multiple routes that could match a request?
- a. By defining route precedence in RouteConfig
 - b. By using route constraints
 - c. By specifying route parameters
 - d. By creating separate route tables

Answer: a. By defining route precedence in RouteConfig

27. What method is used to map a route with a custom URL pattern?
- a. RouteTable.MapRoute()
 - b. RouteManager.AddRoute()
 - c. RouteConfig.DefineRoute()
 - d. RouteCollection.Map()

Answer: a. RouteTable.MapRoute()

28. How do you specify that a route parameter is required?
- a. By not including a default value in the route pattern
 - b. By using the [Required] attribute
 - c. By defining the parameter in RouteConfig
 - d. By setting the parameter in the Route attribute

Answer: a. By not including a default value in the route pattern

29. What does the [Route] attribute's template parameter specify?

- a. The URL pattern for the route
- b. The default values for route parameters
- c. The route constraints
- d. The HTTP methods for the route

Answer: a. The URL pattern for the route

30. How do you define a route with multiple constraints?

- a. By using a dictionary of constraints in the Route method
- b. By chaining multiple [Route] attributes
- c. By setting constraints in RouteConfig
- d. By defining constraints in the Route attribute

Answer: a. By using a dictionary of constraints in the Route method

31. What is the role of the RouteData.Values collection?

- a. To store values for route parameters
- b. To define default values for routes
- c. To manage route constraints
- d. To hold URL patterns

Answer: a. To store values for route parameters

32. How do you configure routes that use attribute routing?

- a. By using the [Route] attribute on controllers and actions
- b. By defining routes in RouteConfig
- c. By setting routes in web.config
- d. By using the RouteBuilder class

Answer: a. By using the [Route] attribute on controllers and actions

33. What is a route handler in ASP.NET MVC?

- a. A component that processes incoming requests and returns responses
- b. A method that defines route patterns
- c. A class that manages route constraints
- d. A utility for debugging routes

Answer: a. A component that processes incoming requests and returns responses

34. How do you define a route that maps to an action method with multiple parameters?

- a. By including multiple parameters in the URL pattern
- b. By using the [Route] attribute with parameter placeholders
- c. By defining parameters in RouteConfig
- d. By specifying parameters in the action method

Answer: b. By using the [Route] attribute with parameter placeholders

35. What method is used to remove a route from the routing table?

- a. RouteCollection.Remove()
- b. RouteTable.RemoveRoute()
- c. RouteManager.DeleteRoute()
- d. RouteCollection.Clear()

Answer: a. RouteCollection.Remove()

36. How do you define a route that only matches when a parameter is present?
- a. By using the optional parameter syntax in the route pattern
 - b. By setting the parameter in RouteConfig
 - c. By using the [Route] attribute with a default value
 - d. By defining the parameter in the controller

Answer: a. By using the optional parameter syntax in the route pattern

37. What is the purpose of the RouteTable class?
- a. To manage and hold all routes for an application
 - b. To define custom route patterns
 - c. To handle route constraints
 - d. To configure default values for routes

Answer: a. To manage and hold all routes for an application

38. How do you define a route that maps to a specific HTTP verb?
- a. By using the [HttpGet] or [HttpPost] attributes
 - b. By specifying the HTTP verb in RouteConfig
 - c. By defining the verb in the Route attribute
 - d. By configuring HTTP verbs in web.config

Answer: a. By using the [HttpGet] or [HttpPost] attributes

39. What does the RoutePrefix attribute do?
- a. Defines a common route prefix for all actions in a controller
 - b. Sets default values for route parameters
 - c. Configures route constraints
 - d. Specifies the HTTP methods for a route

Answer: a. Defines a common route prefix for all actions in a controller

40. How do you create a route that supports localization?
- a. By using localized URL patterns in RouteConfig
 - b. By defining route patterns in multiple languages
 - c. By using the [LocalizedRoute] attribute
 - d. By setting route constraints for localization

Answer: a. By using localized URL patterns in RouteConfig

41. What method is used to generate URLs based on routes?
- a. Url.Action()
 - b. Url.Route()
 - c. Route.GenerateUrl()
 - d. Url.Generate()

Answer: a. Url.Action()

42. How do you set up a default route in RouteConfig?
- a. By specifying the default values in the MapRoute method
 - b. By defining defaults in web.config
 - c. By using the DefaultRoute attribute
 - d. By configuring default routes in RouteTable

Answer: a. By specifying the default values in the MapRoute method

43. What is a named route in ASP.NET MVC?
- a. A route that is given a unique name for easier reference
 - b. A route with default values specified
 - c. A route that handles specific HTTP verbs
 - d. A route with multiple constraints

Answer: a. A route that is given a unique name for easier reference

44. How do you define a route that maps to a specific controller and action?
- a. By including the controller and action names in the route pattern
 - b. By using the [Route] attribute with controller and action parameters
 - c. By specifying controller and action in RouteConfig
 - d. By configuring routes in web.config

Answer: a. By including the controller and action names in the route pattern

45. What method is used to configure routes for an area in ASP.NET MVC?
- a. AreaRegistration.RegisterRoutes()
 - b. AreaConfig.ConfigureRoutes()
 - c. RouteArea.Setup()
 - d. AreaRouting.Configure()

Answer: a. AreaRegistration.RegisterRoutes()

46. How do you handle route conflicts when multiple routes match the same request?
- a. By defining route precedence in RouteConfig
 - b. By using route constraints
 - c. By specifying the order of routes in RouteTable
 - d. By creating separate route tables

Answer: a. By defining route precedence in RouteConfig

47. What does the term "route parameter" refer to?
- a. A placeholder in the URL pattern that matches part of the request URL
 - b. A default value for a route
 - c. A constraint applied to a route
 - d. A setting in RouteConfig

Answer: a. A placeholder in the URL pattern that matches part of the request URL

SET-18

1. What does REST stand for in the context of web services?
 - a. Representational State Transfer
 - b. Reliable State Transfer
 - c. Real-time State Transition
 - d. Resource State Transfer

Answer: a. Representational State Transfer

2. Which HTTP method is used to create a new resource in RESTful services?
 - a. POST
 - b. GET
 - c. PUT
 - d. DELETE

Answer: a. POST

3. How do you define a route in ASP.NET Core Web API?
 - a. By using the `[Route]` attribute
 - b. By configuring routes in `web.config`
 - c. By using the `MapRoute` method
 - d. By defining routes in `Startup.cs`

Answer: a. By using the `[Route]` attribute

4. What is the purpose of the `HttpGet` attribute in ASP.NET Core Web API?
 - a. To specify that an action method handles HTTP GET requests
 - b. To specify that an action method handles HTTP POST requests
 - c. To configure routing
 - d. To handle model validation

Answer: a. To specify that an action method handles HTTP GET requests

5. How can you implement custom routes in ASP.NET MVC?
 - a. By using the `[Route]` attribute on action methods
 - b. By configuring routes in `web.config`
 - c. By using the `MapRoute` method
 - d. By defining routes in `Startup.cs`

Answer: a. By using the `[Route]` attribute on action methods

6. Which HTTP method is used to update an existing resource in RESTful services?
 - a. PUT
 - b. POST
 - c. GET
 - d. DELETE

Answer: a. PUT

7. How can you specify a route parameter in ASP.NET Core Web API?
 - a. By using curly braces `{}` in the route template
 - b. By using square brackets `[]` in the route template
 - c. By using parentheses `()` in the route template
 - d. By using angle brackets `<>` in the route template

Answer: a. By using curly braces {} in the route template

8. What is the role of the `[ApiController]` attribute in ASP.NET Core Web API?
- a. To simplify the controller by automatically handling model validation and binding
 - b. To configure API routing
 - c. To manage authentication
 - d. To handle HTTP requests

Answer: a. To simplify the controller by automatically handling model validation and binding

9. How do you define a route template that includes a default value in ASP.NET Core?
- a. By specifying default values in the route template using `{parameter=defaultValue}`
 - b. By configuring default values in `web.config`
 - c. By defining default values in the `Startup.cs` file
 - d. By using query string parameters

Answer: a. By specifying default values in the route template using `{parameter=defaultValue}`

10. What is the purpose of the `RoutePrefix` attribute in ASP.NET Web API?
- a. To define a common route prefix for all actions in a controller
 - b. To specify a specific route for an individual action
 - c. To manage model binding
 - d. To configure response formatting

Answer: a. To define a common route prefix for all actions in a controller

11. How do you handle multiple route templates in ASP.NET Core Web API?
- a. By using multiple `[Route]` attributes on the same action method
 - b. By defining multiple routes in `web.config`
 - c. By configuring routes in `Startup.cs`
 - d. By using query string parameters

Answer: a. By using multiple `[Route]` attributes on the same action method

12. Which HTTP method is typically used to delete a resource in RESTful services?
- a. DELETE
 - b. POST
 - c. PUT
 - d. GET

Answer: a. DELETE

13. What attribute is used to define a route in an ASP.NET MVC application?
- a. `[Route]`
 - b. `[HttpRoute]`
 - c. `[HttpGet]`
 - d. `[ApiRoute]`

Answer: a. `[Route]`

14. How can you specify an optional route parameter in ASP.NET Core?
- a. By appending a ? to the parameter in the route template
 - b. By using square brackets [] in the route template
 - c. By using parentheses () in the route template
 - d. By defining optional parameters in `web.config`

Answer: b. By using square brackets [] in the route template

15. What does the `HttpResponseMessage` class represent in ASP.NET Web API?
- a. The response message sent to the client, including status code and content
 - b. The request message received from the client
 - c. The routing configuration
 - d. The model binding process

Answer: a. The response message sent to the client, including status code and content

16. How can you use attribute routing to handle complex route templates in ASP.NET MVC?
- a. By applying the `[Route]` attribute with a custom route template to action methods
 - b. By defining complex routes in `web.config`
 - c. By using query string parameters
 - d. By configuring routes in `Startup.cs`

Answer: a. By applying the `[Route]` attribute with a custom route template to action methods

17. What does the `Route` attribute do in ASP.NET Core Web API?
- a. It specifies the URL pattern that an action method should respond to
 - b. It configures authentication for Web API
 - c. It handles model validation
 - d. It defines the response format

Answer: a. It specifies the URL pattern that an action method should respond to

18. How do you create a custom route in ASP.NET MVC?
- a. By using the `MapRoute` method in `RouteConfig.cs`
 - b. By defining routes in `web.config`
 - c. By applying the `[Route]` attribute to action methods
 - d. By using query string parameters

Answer: a. By using the `MapRoute` method in `RouteConfig.cs`

19. What is the purpose of the `RouteData` property in ASP.NET MVC?
- a. To hold information about the current route, including route values and route name
 - b. To manage HTTP requests
 - c. To configure API routing
 - d. To handle model validation

Answer: a. To hold information about the current route, including route values and route name

20. How can you set up a default route for a Web API application in ASP.NET Core?
- a. By configuring a default route template in `Startup.cs`
 - b. By defining routes in `web.config`
 - c. By using the `[Route]` attribute on controllers
 - d. By managing routes in `appsettings.json`

Answer: a. By configuring a default route template in `Startup.cs`

21. What attribute is used to specify that an action method in ASP.NET Web API should handle HTTP PATCH requests?
- a. `[HttpPatch]`
 - b. `[Patch]`

- c. [HttpUpdate]
- d. [Update]

Answer: a. [HttpPatch]

22. How do you ensure that an ASP.NET Core Web API action method only responds to HTTP POST requests?

- a. By using the [HttpPost] attribute
- b. By using the [Post] attribute
- c. By using the [HttpMethod] attribute
- d. By using query string parameters

Answer: a. By using the [HttpPost] attribute

23. What is the purpose of the RouteCollection class in ASP.NET MVC?

- a. To manage a collection of routes defined for the application
- b. To handle model binding
- c. To configure response formatting
- d. To manage authentication

Answer: a. To manage a collection of routes defined for the application

24. How can you map a Web API controller to a specific route in ASP.NET Core?

- a. By using the [Route] attribute on the controller class
- b. By configuring routes in web.config
- c. By defining routes in Startup.cs
- d. By using query string parameters

Answer: a. By using the [Route] attribute on the controller class

25. What attribute is used to define a Web API route that includes a parameter in ASP.NET Web API?

- a. [Route]
- b. [ApiRoute]
- c. [HttpGet]
- d. [HttpPost]

Answer: a. [Route]

26. How do you handle route constraints in ASP.NET Core Web API?

- a. By specifying constraints in the route template using {parameter:constraint}
- b. By configuring constraints in web.config
- c. By using query string parameters
- d. By defining constraints in Startup.cs

Answer: a. By specifying constraints in the route template using {parameter:constraint}

27. What is the purpose of the RouteValueDictionary class in ASP.NET MVC?

- a. To hold route values and their corresponding keys for route matching
- b. To manage HTTP requests
- c. To configure response formatting
- d. To handle model binding

Answer: a. To hold route values and their corresponding keys for route matching

28. How do you configure attribute routing in ASP.NET Core?
- a. By using the `[Route]` attribute on controllers and action methods
 - b. By defining routes in `web.config`
 - c. By using the `MapRoute` method in `Startup.cs`
 - d. By configuring routes in `appsettings.json`

Answer: a. By using the `[Route]` attribute on controllers and action methods

29. What is the role of the `RoutePrefix` attribute in ASP.NET Web API?
- a. To define a common route prefix for all actions in a controller
 - b. To specify a specific route for an individual action
 - c. To manage model binding
 - d. To configure response formatting

Answer: a. To define a common route prefix for all actions in a controller

30. How do you define a route constraint in ASP.NET Core?
- a. By adding constraints in the route template using `{parameter:constraint}`
 - b. By configuring constraints in `web.config`
 - c. By using query string parameters
 - d. By defining constraints in `Startup.cs`

Answer: a. By adding constraints in the route template using `{parameter:constraint}`

31. What attribute is used to specify that an action method should handle HTTP PUT requests in ASP.NET Web API?
- a. `[HttpPut]`
 - b. `[Put]`
 - c. `[HttpUpdate]`
 - d. `[Update]`

Answer: a. `[HttpPut]`

32. How do you configure a default route in an ASP.NET MVC application?
- a. By using the `MapRoute` method in `RouteConfig.cs`
 - b. By defining routes in `web.config`
 - c. By applying the `[Route]` attribute to controllers
 - d. By using query string parameters

Answer: a. By using the `MapRoute` method in `RouteConfig.cs`

33. What is the purpose of the `IActionResult` interface in ASP.NET MVC?
- a. To represent various types of results that an action method can return
 - b. To handle HTTP requests
 - c. To configure routing
 - d. To manage authentication

Answer: a. To represent various types of results that an action method can return

34. How do you configure Web API routes using attribute routing in ASP.NET Core?
- a. By applying the `[Route]` attribute to controllers and action methods
 - b. By defining routes in `web.config`
 - c. By using query string parameters
 - d. By configuring routes in `Startup.cs`

Answer: a. By applying the `[Route]` attribute to controllers and action methods

35. What is the purpose of the `RouteCollection` class in ASP.NET MVC?

- a. To manage a collection of routes for the application
- b. To handle model binding
- c. To configure response formatting
- d. To manage authentication

Answer: a. To manage a collection of routes for the application

36. How do you define a route with multiple parameters in ASP.NET Core Web API?

- a. By using a route template with multiple parameters in the `[Route]` attribute
- b. By defining parameters in `web.config`
- c. By using query string parameters
- d. By configuring routes in `Startup.cs`

Answer: a. By using a route template with multiple parameters in the `[Route]` attribute

37. What attribute is used to specify that an action method should handle HTTP DELETE requests in ASP.NET Web API?

- a. `[HttpDelete]`
- b. `[Delete]`
- c. `[HttpRemove]`
- d. `[Remove]`

Answer: a. `[HttpDelete]`

38. How do you specify a default route parameter value in ASP.NET MVC?

- a. By using `{parameter=defaultValue}` in the route template
- b. By configuring default values in `web.config`
- c. By using query string parameters
- d. By defining default values in `Startup.cs`

Answer: a. By using `{parameter=defaultValue}` in the route template

39. What does the `IActionFilter` interface do in ASP.NET MVC?

- a. It allows you to execute code before and after an action method executes
- b. It manages HTTP requests
- c. It configures API routing
- d. It handles model validation

Answer: a. It allows you to execute code before and after an action method executes

40. How can you use route constraints to ensure a parameter is an integer in ASP.NET Core?

- a. By specifying `{parameter:int}` in the route template
- b. By defining constraints in `web.config`
- c. By using query string parameters
- d. By configuring constraints in `Startup.cs`

Answer: a. By specifying `{parameter:int}` in the route template

41. What is the purpose of the `IRouteHandler` interface in ASP.NET MVC?

- a. To handle the routing of HTTP requests to the appropriate controllers
- b. To manage HTTP responses

- c. To handle model binding
- d. To configure authentication

Answer: a. To handle the routing of HTTP requests to the appropriate controllers

42. How do you map routes to action methods in ASP.NET Core?

- a. By defining routes in the `[Route]` attribute applied to action methods and controllers
- b. By using the `MapRoute` method in `Startup.cs`
- c. By configuring routes in `web.config`
- d. By using query string parameters

Answer: a. By defining routes in the `[Route]` attribute applied to action methods and controllers

SET-19

1. What is the primary format for data exchange in modern ASP.NET Web APIs?
 - a. JSON
 - b. XML
 - c. CSV
 - d. Plain text

Answer: a. JSON

2. Which attribute is used to control the serialization of a property in a Web API model?
 - a. [JsonProperty]
 - b. [XmlElement]
 - c. [DataMember]
 - d. [JsonIgnore]

Answer: d. [JsonIgnore]

3. What is the default serialization format for ASP.NET Web API when no format is specified?
 - a. JSON
 - b. XML
 - c. CSV
 - d. Plain text

Answer: a. JSON

4. How can you configure an ASP.NET Web API project to use XML serialization?
 - a. By configuring XML formatters in `Startup.cs`
 - b. By changing the default formatter in `web.config`
 - c. By adding XML serialization attributes to models
 - d. By using the `XmlSerializer` class directly

Answer: a. By configuring XML formatters in `Startup.cs`

5. Which attribute is used to specify the XML element name for a property in a Web API model?
 - a. [XmlElement]
 - b. [JsonProperty]
 - c. [JsonIgnore]
 - d. [DataMember]

Answer: a. [XmlElement]

6. What method is used to serialize an object to JSON in ASP.NET Web API?
 - a. `JsonConvert.SerializeObject()`
 - b. `XmlSerializer.Serialize()`
 - c. `DataContractSerializer.WriteObject()`
 - d. `JsonSerializer.Serialize()`

Answer: a. `JsonConvert.SerializeObject()`

7. Which attribute can be used to specify that a property should not be serialized to XML or JSON?
 - a. [JsonIgnore]
 - b. [XmlIgnore]

- c. [IgnoreDataMember]
- d. [NotMapped]

Answer: b. [XmlIgnore]

8. What configuration is necessary to enable both JSON and XML serialization in an ASP.NET Web API?
- a. Add both JSON and XML formatters to the `MvcOptions` in `Startup.cs`
 - b. Configure XML serialization in `web.config`
 - c. Use a single formatter for both JSON and XML
 - d. Add serialization settings in `Program.cs`

Answer: a. Add both JSON and XML formatters to the `MvcOptions` in `Startup.cs`

9. Which attribute in ASP.NET Web API specifies that a property is required during serialization and deserialization?
- a. [Required]
 - b. [XmlElement(IsNullable = false)]
 - c. [JsonRequired]
 - d. [DataMember(IsRequired = true)]

Answer: d. [DataMember(IsRequired = true)]

10. What is the default serialization behavior for null values in JSON serialization in ASP.NET Web API?
- a. Null values are excluded from the serialized output
 - b. Null values are included as `null`
 - c. Null values are replaced with empty strings
 - d. Null values cause serialization to fail

Answer: a. Null values are excluded from the serialized output

11. How can you ensure that all properties of a Web API model are serialized as JSON properties?
- a. By applying the [JsonProperty] attribute to each property
 - b. By configuring the `JsonSerializerSettings` to include all properties
 - c. By using the `DataContract` and `DataMember` attributes
 - d. By setting `IncludeAllProperties` in `JsonSerializerSettings`

Answer: b. By configuring the `JsonSerializerSettings` to include all properties

12. What is the purpose of the `XmlSerializer` class in ASP.NET Web API?
- a. To handle XML serialization and deserialization
 - b. To convert XML data to JSON
 - c. To manage JSON formatting options
 - d. To serialize objects to plain text

Answer: a. To handle XML serialization and deserialization

13. Which method is used to deserialize a JSON string into an object in ASP.NET Web API?
- a. `JsonConvert.DeserializeObject()`
 - b. `XmlSerializer.Deserialize()`
 - c. `DataContractSerializer.ReadObject()`
 - d. `JsonSerializer.Deserialize()`

Answer: a. `JsonConvert.DeserializeObject()`

14. How can you configure the serialization of dates in JSON responses in ASP.NET Web API?
- a. By setting `DateTimeFormat` in `JsonSerializerSettings`
 - b. By using `[DateFormat]` attribute on properties
 - c. By configuring date format in `web.config`
 - d. By using `XmlDateTimeSerializationMode`

Answer: a. By setting `DateTimeFormat` in `JsonSerializerSettings`

15. What is the purpose of the `JsonSerializerSettings` class in JSON serialization?
- a. To configure serialization and deserialization settings for JSON
 - b. To manage XML serialization options
 - c. To handle custom serialization formats
 - d. To define data contract attributes

Answer: a. To configure serialization and deserialization settings for JSON

16. Which attribute is used to include a property in XML serialization that is not included in JSON serialization?
- a. `[XmlElement]`
 - b. `[JsonIgnore]`
 - c. `[XmlIgnore]`
 - d. `[DataMember]`

Answer: a. `[XmlElement]`

17. How can you control the indentation of JSON output in ASP.NET Web API?
- a. By setting `Formatting.Indented` in `JsonSerializerSettings`
 - b. By applying `[Indented]` attribute to properties
 - c. By configuring indentation in `web.config`
 - d. By using `JsonConvert` with formatting options

Answer: a. By setting `Formatting.Indented` in `JsonSerializerSettings`

18. What is the default format for serialization when using the `DataContractSerializer` in ASP.NET Web API?
- a. XML
 - b. JSON
 - c. CSV
 - d. Plain text

Answer: a. XML

19. Which method is used to customize the serialization process for JSON in ASP.NET Web API?
- a. Implementing a custom `JsonConverter`
 - b. Configuring serialization settings in `web.config`
 - c. Using `[CustomSerializer]` attribute
 - d. Applying custom attributes to properties

Answer: a. Implementing a custom `JsonConverter`

20. How can you handle circular references during JSON serialization in ASP.NET Web API?
- a. By setting `ReferenceLoopHandling.Ignore` in `JsonSerializerSettings`

- b. By using `[IgnoreCircularReferences]` attribute
- c. By configuring circular references in `web.config`
- d. By avoiding circular references in data models

Answer: a. By setting `ReferenceLoopHandling.Ignore` in `JsonSerializerSettings`

21. What is the role of the `[DataMember]` attribute in XML and JSON serialization?

- a. To specify which properties should be serialized and their names
- b. To define custom serialization rules
- c. To ignore properties during serialization
- d. To control serialization of collection items

Answer: a. To specify which properties should be serialized and their names

22. Which method should be used to include XML comments in serialized XML data?

- a. Configure XML documentation comments in the project
- b. Use the `[XmlComment]` attribute
- c. Implement custom XML serialization
- d. Set `IncludeComments` in `XmlSerializerSettings`

Answer: a. Configure XML documentation comments in the project

23. What attribute should be used to mark a property for JSON serialization while excluding it from XML serialization?

- a. `[JsonProperty]` and `[XmlIgnore]`
- b. `[XmlElement]` and `[JsonIgnore]`
- c. `[JsonIgnore]` and `[XmlElement]`
- d. `[DataMember]` and `[XmlIgnore]`

Answer: a. `[JsonProperty]` and `[XmlIgnore]`

24. How can you configure a custom date format for XML serialization in ASP.NET Web API?

- a. By using the `[XmlElement(DataType = "date")]` attribute
- b. By setting `DateFormat` in `XmlSerializerSettings`
- c. By configuring date format in `web.config`
- d. By applying custom serialization logic

Answer: d. By applying custom serialization logic

25. What is the default behavior of JSON serialization for properties with null values in ASP.NET Web API?

- a. Null values are excluded from the output
- b. Null values are serialized as `null`
- c. Null values are serialized as empty strings
- d. Null values cause serialization errors

Answer: a. Null values are excluded from the output

26. Which ASP.NET Web API class provides support for XML serialization and deserialization?

- a. `XmlSerializer`
- b. `JsonSerializer`
- c. `DataContractSerializer`
- d. `XmlDocument`

Answer: a. `XmlSerializer`

27. How can you include only specific properties in the JSON serialization output?
- a. By using the `[JsonProperty]` attribute on those properties
 - b. By configuring `JsonSerializerSettings` to exclude properties
 - c. By using the `[DataMember]` attribute with `EmitDefaultValue` set to false
 - d. By applying `[JsonIgnore]` to properties you want to exclude

Answer: a. By using the `[JsonProperty]` attribute on those properties

28. Which attribute is used to control the XML serialization of a property's name in ASP.NET Web API?
- a. `[XmlElement(ElementName = "name")]`
 - b. `[JsonProperty("name")]`
 - c. `[DataMember(Name = "name")]`
 - d. `[XmlIgnore]`

Answer: a. `[XmlElement(ElementName = "name")]`

29. What is the default content type for JSON responses in ASP.NET Web API?
- a. `application/json`
 - b. `text/xml`
 - c. `text/plain`
 - d. `application/xml`

Answer: a. `application/json`

30. How can you serialize an object to XML in ASP.NET Web API?
- a. By using the `XmlSerializer` class
 - b. By calling `JsonConvert.SerializeObject()`
 - c. By using `DataContractSerializer`
 - d. By configuring XML formatters in `Startup.cs`

Answer: a. By using the `XmlSerializer` class

31. What attribute is used to define how an XML element should be serialized in Web API models?
- a. `[XmlElement]`
 - b. `[JsonProperty]`
 - c. `[DataMember]`
 - d. `[JsonIgnore]`

Answer: a. `[XmlElement]`

32. How can you customize JSON serialization settings globally in an ASP.NET Core application?
- a. By configuring `JsonSerializerOptions` in `Startup.cs`
 - b. By setting `JsonSerializerSettings` in `web.config`
 - c. By modifying attributes on individual properties
 - d. By using custom serialization attributes

Answer: a. By configuring `JsonSerializerOptions` in `Startup.cs`

33. Which method is used to handle the serialization of complex objects to JSON format?
- a. `JsonConvert.SerializeObject()`
 - b. `XmlSerializer.Serialize()`

- c. `DataContractSerializer.WriteObject()`
- d. `JsonSerializer.Serialize()`

Answer: a. `JsonConvert.SerializeObject()`

34. What is the recommended way to handle large XML responses in ASP.NET Web API to improve performance?
- a. Use streaming techniques to process XML data in chunks
 - b. Serialize the XML data into JSON format
 - c. Compress the XML response data
 - d. Use a different serialization library

Answer: a. Use streaming techniques to process XML data in chunks

35. How do you handle version-specific serialization requirements in ASP.NET Web API?
- a. By implementing version-specific formatters or converters
 - b. By using the same serializer for all versions
 - c. By updating the API version in `web.config`
 - d. By applying versioning logic in the controller

Answer: a. By implementing version-specific formatters or converters

36. Which attribute is used to specify the XML namespace for an element in ASP.NET Web API?
- a. `[XmlNamespace]`
 - b. `[XmlRoot(Namespace = "namespace")]`
 - c. `[XmlElement(Namespace = "namespace")]`
 - d. `[DataMember]`

Answer: b. `[XmlRoot(Namespace = "namespace")]`

37. How can you ensure that a Web API model property is always serialized as a specific XML element name?
- a. By using the `[XmlElement(ElementName = "elementName")]` attribute
 - b. By configuring XML serialization settings in `web.config`
 - c. By setting the property name in `XmlSerializer` constructor
 - d. By modifying the `DataContract` attributes

Answer: a. By using the `[XmlElement(ElementName = "elementName")]` attribute

38. What is the purpose of the `DataContractSerializer` class in ASP.NET Web API?
- a. To handle XML serialization and deserialization
 - b. To convert XML data to JSON
 - c. To manage JSON serialization settings
 - d. To serialize and deserialize data contracts in XML format

Answer: d. To serialize and deserialize data contracts in XML format

39. How can you include custom XML attributes in serialization for a Web API model?
- a. By using the `[XmlAttribute]` attribute
 - b. By applying `[CustomXml]` attribute
 - c. By setting custom serialization rules in `XmlSerializerSettings`
 - d. By modifying the XML output manually

Answer: a. By using the `[XmlAttribute]` attribute

40. Which setting in `JsonSerializerOptions` controls the indentation of JSON output?
- a. `WriteIndented`
 - b. `Formatting.Indented`
 - c. `Indentation`
 - d. `PrettyPrint`

Answer: a. `WriteIndented`

41. How can you configure JSON serialization to include null values in the output?
- a. By setting `DefaultIgnoreCondition` to `JsonIgnoreCondition.Never` in `JsonSerializerOptions`
 - b. By using `[JsonProperty]` attribute on properties
 - c. By configuring `JsonSerializerSettings` in `web.config`
 - d. By applying `[DataMember]` attribute with `EmitDefaultValue` set to `true`

Answer: a. By setting `DefaultIgnoreCondition` to `JsonIgnoreCondition.Never` in `JsonSerializerOptions`

42. Which of the following is a valid method for configuring XML serialization options in ASP.NET Web API?
- a. Implementing a custom `XmlSerializer` and setting options
 - b. Configuring XML settings in `JsonSerializerOptions`
 - c. Using the `XmlWriterSettings` class
 - d. Setting options directly in the `web.config`

Answer: a. Implementing a custom `XmlSerializer` and setting options

SET-20

1. What does OAuth provide in terms of authentication?
 - a. Delegated authorization
 - b. User identity verification
 - c. Password management
 - d. Session state

Answer: a. Delegated authorization

2. What is OpenID Connect built on top of?
 - a. OAuth 2.0
 - b. OAuth 1.0
 - c. SAML
 - d. LDAP

Answer: a. OAuth 2.0

3. What is the purpose of JWT (JSON Web Tokens)?
 - a. To securely transmit information between parties
 - b. To manage user sessions
 - c. To handle authentication and authorization
 - d. To store user preferences

Answer: a. To securely transmit information between parties

4. Which component of OAuth is responsible for issuing tokens?
 - a. Authorization Server
 - b. Resource Server
 - c. Client Application
 - d. User Agent

Answer: a. Authorization Server

5. What does the `scope` parameter in OAuth 2.0 specify?
 - a. The level of access requested by the client
 - b. The user's authentication method
 - c. The token expiration time
 - d. The resource server's URL

Answer: a. The level of access requested by the client

6. What is the main function of OpenID Connect?
 - a. To provide authentication on top of OAuth 2.0
 - b. To manage user sessions
 - c. To issue access tokens
 - d. To handle OAuth 2.0 token revocation

Answer: a. To provide authentication on top of OAuth 2.0

7. What information is typically included in a JWT?
 - a. Header, Payload, and Signature
 - b. Token, Secret, and Expiration
 - c. UserID, Role, and Permissions
 - d. TokenType, Claims, and ExpiresIn

Answer: a. Header, Payload, and Signature

8. Which JWT claim is used to identify the token issuer?
- a. iss
 - b. sub
 - c. exp
 - d. aud

Answer: a. iss

9. In OAuth 2.0, what role does the Resource Server play?
- a. It hosts the protected resources and validates access tokens
 - b. It issues access tokens to the client
 - c. It authenticates the user
 - d. It requests authorization from the user

Answer: a. It hosts the protected resources and validates access tokens

10. What is the purpose of the aud claim in a JWT?
- a. To specify the intended audience for the token
 - b. To define the token's expiration time
 - c. To indicate the issuer of the token
 - d. To specify the token type

Answer: a. To specify the intended audience for the token

11. Which OAuth 2.0 grant type is used to obtain an access token directly from the resource owner?
- a. Resource Owner Password Credentials Grant
 - b. Authorization Code Grant
 - c. Client Credentials Grant
 - d. Implicit Grant

Answer: a. Resource Owner Password Credentials Grant

12. What does OpenID Connect use to extend OAuth 2.0 functionality?
- a. ID Tokens
 - b. Access Tokens
 - c. Refresh Tokens
 - d. Authorization Codes

Answer: a. ID Tokens

13. What does the exp claim in a JWT specify?
- a. The expiration time of the token
 - b. The issuer of the token
 - c. The audience of the token
 - d. The token's subject

Answer: a. The expiration time of the token

14. Which OAuth 2.0 grant type is commonly used for web applications that need to access resources on behalf of a user?
- a. Authorization Code Grant
 - b. Client Credentials Grant

- c. Resource Owner Password Credentials Grant
- d. Implicit Grant

Answer: a. Authorization Code Grant

15. How does OpenID Connect differentiate between users?

- a. By using ID Tokens
- b. By using Access Tokens
- c. By using Refresh Tokens
- d. By using Authorization Codes

Answer: a. By using ID Tokens

16. What does the `sub` claim in a JWT represent?

- a. The subject of the token (usually the user)
- b. The token's expiration time
- c. The issuer of the token
- d. The intended audience of the token

Answer: a. The subject of the token (usually the user)

17. What is the main advantage of using JWTs for authentication?

- a. They are stateless and can be easily passed between servers
- b. They require less server-side storage
- c. They provide high encryption security
- d. They automatically expire after a certain time

Answer: a. They are stateless and can be easily passed between servers

18. Which OAuth 2.0 grant type is best suited for server-to-server interactions?

- a. Client Credentials Grant
- b. Resource Owner Password Credentials Grant
- c. Authorization Code Grant
- d. Implicit Grant

Answer: a. Client Credentials Grant

19. In OpenID Connect, what is the role of the ID Token?

- a. To authenticate the user and provide their identity
- b. To authorize access to protected resources
- c. To manage refresh tokens
- d. To grant access to the client application

Answer: a. To authenticate the user and provide their identity

20. How is a JWT typically validated?

- a. By checking its signature using a secret key or public key
- b. By verifying its expiration time
- c. By decrypting the token's payload
- d. By querying the authorization server

Answer: a. By checking its signature using a secret key or public key

21. What is the main purpose of the `refresh_token` in OAuth 2.0?

- a. To obtain a new access token when the current one expires

- b. To authenticate the user
- c. To validate the user's permissions
- d. To request additional scopes

Answer: a. To obtain a new access token when the current one expires

22. Which claim is used to identify the token's intended audience in JWT?

- a. aud
- b. iss
- c. sub
- d. exp

Answer: a. aud

23. What does the `Authorization Code` grant type involve in OAuth 2.0?

- a. The client receives an authorization code that it exchanges for an access token
- b. The client directly requests an access token from the resource owner
- c. The client requests a token directly from the authorization server
- d. The client uses a refresh token to obtain a new access token

Answer: a. The client receives an authorization code that it exchanges for an access token

24. Which OAuth 2.0 grant type is most suitable for client-side applications where the client application cannot be trusted to keep secrets?

- a. Implicit Grant
- b. Authorization Code Grant
- c. Client Credentials Grant
- d. Resource Owner Password Credentials Grant

Answer: a. Implicit Grant

25. What does the `nonce` parameter in OpenID Connect help prevent?

- a. Replay attacks
- b. Token expiration
- c. Token revocation
- d. User impersonation

Answer: a. Replay attacks

26. What is the `client_id` used for in OAuth 2.0?

- a. To uniquely identify the client application making the request
- b. To specify the user's identity
- c. To manage token expiration
- d. To define the resource server's URL

Answer: a. To uniquely identify the client application making the request

27. How does OpenID Connect use the `code` grant type?

- a. By exchanging an authorization code for an ID token and access token
- b. By requesting tokens directly from the authorization server
- c. By obtaining tokens using the resource owner's credentials
- d. By using refresh tokens to get new tokens

Answer: a. By exchanging an authorization code for an ID token and access token

28. Which claim indicates the issuer of a JWT?

- a. iss
- b. sub
- c. aud
- d. exp

Answer: a. iss

29. In which scenario is the Implicit Grant type used in OAuth 2.0?

- a. For client-side applications where the client application is not able to securely store client secrets
- b. For server-side applications that need to exchange authorization codes for tokens
- c. For applications that use client credentials to access resources
- d. For scenarios where the resource owner provides credentials directly to the client

Answer: a. For client-side applications where the client application is not able to securely store client secrets

30. What role does the `access_token` play in OAuth 2.0?

- a. It grants access to protected resources on behalf of the resource owner
- b. It verifies the user's identity
- c. It manages user sessions
- d. It handles token refresh

Answer: a. It grants access to protected resources on behalf of the resource owner

31. How is the integrity of a JWT ensured?

- a. By using a cryptographic signature
- b. By encrypting the token
- c. By validating the token's expiration time
- d. By checking the issuer and audience claims

Answer: a. By using a cryptographic signature

32. Which parameter in OpenID Connect helps mitigate cross-site request forgery (CSRF) attacks?

- a. state
- b. nonce
- c. code
- d. scope

Answer: a. state

33. What is the purpose of the `state` parameter in OAuth 2.0 and OpenID Connect?

- a. To maintain state between the authorization request and callback
- b. To specify the scope of access
- c. To define the token expiration
- d. To indicate the token issuer

Answer: a. To maintain state between the authorization request and callback

34. What does the `id_token` in OpenID Connect contain?

- a. User identity information and authentication details
- b. Access token for resource access

- c. Refresh token for obtaining new tokens
- d. Authorization code for exchanging tokens

Answer: a. User identity information and authentication details

35. Which OAuth 2.0 grant type is used for applications that do not have access to a client secret?

- a. Implicit Grant
- b. Authorization Code Grant
- c. Client Credentials Grant
- d. Resource Owner Password Credentials Grant

Answer: a. Implicit Grant

36. How can you verify the authenticity of a JWT?

- a. By checking its signature with the secret key or public key
- b. By validating its claims against the authorization server
- c. By decrypting its payload
- d. By ensuring it has not expired

Answer: a. By checking its signature with the secret key or public key

37. What is the purpose of the `refresh_token` in OAuth 2.0?

- a. To obtain a new access token when the current one expires
- b. To authenticate the user
- c. To validate the user's permissions
- d. To request additional scopes

Answer: a. To obtain a new access token when the current one expires

38. Which claim in a JWT specifies the token's expiration time?

- a. `exp`
- b. `iat`
- c. `nbfi`
- d. `sub`

Answer: a. `exp`

39. What is the primary purpose of OAuth 2.0?

- a. To authorize access to resources on behalf of users
- b. To authenticate users
- c. To manage user sessions
- d. To provide encryption for data

Answer: a. To authorize access to resources on behalf of users

40. How does OpenID Connect extend OAuth 2.0 functionality?

- a. By adding authentication on top of authorization
- b. By handling resource server access
- c. By managing token revocation
- d. By providing client secrets

Answer: a. By adding authentication on top of authorization

41. What is the primary difference between an `access_token` and an `id_token`?
- a. `access_token` is used for accessing resources, `id_token` is used for authentication
 - b. `access_token` is for authentication, `id_token` is for accessing resources
 - c. `access_token` is for session management, `id_token` is for authorization
 - d. `access_token` is used for resource management, `id_token` is for token refresh

Answer: a. `access_token` is used for accessing resources, `id_token` is used for authentication

42. How does the `nonce` parameter improve security in OpenID Connect?
- a. It helps prevent replay attacks by ensuring the request is unique
 - b. It specifies the token's expiration time
 - c. It provides user authentication
 - d. It handles access token refresh

Answer: a. It helps prevent replay attacks by ensuring the request is unique

SET-21

1. What is the primary purpose of API versioning in ASP.NET?
 - a. To manage changes and maintain compatibility across different versions of an API
 - b. To improve the performance of the API
 - c. To enhance security features of the API
 - d. To optimize the database schemaAnswer: a. To manage changes and maintain compatibility across different versions of an API
2. Which attribute is used to specify the API version in ASP.NET Core?
 - a. [ApiVersion]
 - b. [Version]
 - c. [ApiVersioning]
 - d. [RouteVersion]Answer: a. [ApiVersion]
3. What is a common approach to implementing API versioning in ASP.NET Core?
 - a. Using URL path segments to specify the version
 - b. Using query string parameters to specify the version
 - c. Using HTTP headers to specify the version
 - d. All of the aboveAnswer: d. All of the above
4. How can you configure API versioning in the Startup.cs file of an ASP.NET Core application?
 - a. By using `services.AddApiVersioning()`
 - b. By adding versioning configuration in `appsettings.json`
 - c. By setting up routes in `RouteConfig.cs`
 - d. By defining versioning rules in `Program.cs`Answer: a. By using `services.AddApiVersioning()`
5. What is the default API versioning scheme in ASP.NET Core if no scheme is specified?
 - a. URL path versioning
 - b. Query string versioning
 - c. Header versioning
 - d. No versioningAnswer: d. No versioning
6. In ASP.NET Core, how can you specify multiple versions of an API endpoint using URL path versioning?
 - a. By adding version numbers as segments in the route template
 - b. By including version numbers in query string parameters
 - c. By configuring versioning in the request headers
 - d. By using different domains for each versionAnswer: a. By adding version numbers as segments in the route template
7. Which API versioning method is used to avoid version conflicts by managing versions through query strings?
 - a. Query string versioning
 - b. Header versioning
 - c. URL path versioning
 - d. Media type versioningAnswer: a. Query string versioning

8. What attribute is used to specify the minimum and maximum API versions supported by an action method in ASP.NET Core?
- a. [ApiVersionRange]
 - b. [ApiVersion]
 - c. [ApiVersionMin]
 - d. [ApiVersioning]

Answer: b. [ApiVersion]

9. How can you specify an API version in the request header in ASP.NET Core?
- a. By using the X-API-Version header
 - b. By using the Api-Version header
 - c. By adding version numbers in the Accept header
 - d. By configuring versioning in Startup.cs

Answer: a. By using the X-API-Version header

10. What is the purpose of the MapToApiVersion method in ASP.NET Core?
- a. To map controller actions to specific API versions
 - b. To configure API versioning in Startup.cs
 - c. To handle versioning in query strings
 - d. To manage versioning in the response headers

Answer: a. To map controller actions to specific API versions

11. Which versioning strategy allows clients to specify the desired API version in the URL?
- a. URL path versioning
 - b. Query string versioning
 - c. Header versioning
 - d. Media type versioning

Answer: a. URL path versioning

12. How can you handle API versioning in ASP.NET Core if you want to support versioning through custom media types?
- a. By using media type versioning
 - b. By using URL path versioning
 - c. By using query string versioning
 - d. By using header versioning

Answer: a. By using media type versioning

13. What does the ApiVersioningOptions class allow you to configure in ASP.NET Core?
- a. API versioning policies and behaviors
 - b. Routing strategies
 - c. Data validation rules
 - d. Response formatting

Answer: a. API versioning policies and behaviors

14. Which attribute in ASP.NET Core can be used to mark a controller to handle a specific API version?
- a. [ApiVersion]
 - b. [Route]

- c. [Version]
- d. [ApiVersioning]

Answer: a. [ApiVersion]

15. What is the default behavior of the `ApiVersioning` package if an API version is not specified in the request?
- a. It returns the latest version of the API
 - b. It returns a 400 Bad Request error
 - c. It returns a 404 Not Found error
 - d. It returns an empty response

Answer: a. It returns the latest version of the API

16. How can you specify a default API version in ASP.NET Core?
- a. By setting it in the `ApiVersioningOptions` configuration
 - b. By adding it to the URL path
 - c. By including it in the query string
 - d. By using the `X-API-Version` header

Answer: a. By setting it in the `ApiVersioningOptions` configuration

17. Which attribute is used to specify the versions of an API endpoint in ASP.NET Core when using query string versioning?
- a. [ApiVersion]
 - b. [Route]
 - c. [QueryStringVersion]
 - d. [Version]

Answer: a. [ApiVersion]

18. How can you make sure that an action method in ASP.NET Core supports multiple API versions?
- a. By using the `[ApiVersion]` attribute with multiple versions
 - b. By defining multiple methods for each version
 - c. By creating separate controllers for each version
 - d. By using query strings to handle different versions

Answer: a. By using the `[ApiVersion]` attribute with multiple versions

19. What is the main advantage of using API versioning through request headers?
- a. It keeps the URL clean and avoids versioning conflicts
 - b. It is easier to implement compared to other methods
 - c. It allows multiple versions to be handled through query strings
 - d. It provides better performance

Answer: a. It keeps the URL clean and avoids versioning conflicts

20. Which HTTP header can be used to specify the API version when using header versioning?
- a. `X-API-Version`
 - b. `Api-Version`
 - c. `Accept-Version`
 - d. `Version`

Answer: a. `X-API-Version`

21. What is a potential drawback of using URL path versioning for APIs?
- a. It can lead to URL bloat and version conflicts
 - b. It is less intuitive for users
 - c. It requires additional configuration in `Startup.cs`
 - d. It does not support multiple versions

Answer: a. It can lead to URL bloat and version conflicts

22. Which API versioning method uses media type parameters to specify the version?
- a. Media type versioning
 - b. Query string versioning
 - c. URL path versioning
 - d. Header versioning

Answer: a. Media type versioning

23. How can you specify a version constraint in ASP.NET Core API routes?
- a. By using the `{version}` placeholder in route templates
 - b. By configuring constraints in `web.config`
 - c. By defining constraints in `Startup.cs`
 - d. By using query string parameters

Answer: a. By using the `{version}` placeholder in route templates

24. What is the purpose of the `ApiVersionNeutral` attribute in ASP.NET Core?
- a. To mark a controller or action that is version-neutral and not tied to any specific API version
 - b. To define a default API version
 - c. To handle versioning in the response headers
 - d. To configure versioning rules

Answer: a. To mark a controller or action that is version-neutral and not tied to any specific API version

25. How can you implement versioning through query strings in ASP.NET Core?
- a. By adding version information as a query parameter in the route
 - b. By using the `X-API-Version` header
 - c. By specifying versions in the request body
 - d. By using media types

Answer: a. By adding version information as a query parameter in the route

26. What is the role of the `ApiVersioningOptions` class in API versioning?
- a. To configure global settings for API versioning
 - b. To define API routes
 - c. To handle model binding
 - d. To manage response formatting

Answer: a. To configure global settings for API versioning

27. How can you make an API version deprecated in ASP.NET Core?
- a. By using the `[ApiVersion]` attribute with a deprecated flag
 - b. By removing support for the version in `Startup.cs`
 - c. By adding a `Deprecated` status in `web.config`
 - d. By using query string parameters

Answer: a. By using the `[ApiVersion]` attribute with a deprecated flag

28. What is a common practice when designing API versioning strategies?
- a. To maintain backward compatibility and avoid breaking changes
 - b. To frequently change versions without notice
 - c. To use a single version for all clients
 - d. To ignore versioning for API endpoints

Answer: a. To maintain backward compatibility and avoid breaking changes

29. Which API versioning method is often preferred for scenarios where the client needs to specify the version explicitly?
- a. Query string versioning
 - b. Header versioning
 - c. URL path versioning
 - d. Media type versioning

Answer: a. Query string versioning

30. How do you enable API versioning in an ASP.NET Core application?
- a. By adding the `Microsoft.AspNetCore.Mvc.Versioning` package and configuring it in `Startup.cs`
 - b. By using the `ApiVersion` attribute on controllers
 - c. By modifying the `web.config` file
 - d. By setting versioning rules in `appsettings.json`

Answer: a. By adding the `Microsoft.AspNetCore.Mvc.Versioning` package and configuring it in `Startup.cs`

31. Which HTTP method is most commonly used to access resources in a specific API version when using URL path versioning?
- a. GET
 - b. POST
 - c. PUT
 - d. DELETE

Answer: a. GET

32. How can you make sure that a deprecated API version is still accessible but clearly marked as deprecated?
- a. By providing a warning message in the API documentation
 - b. By removing support for the version from the codebase
 - c. By redirecting requests to the latest version
 - d. By returning a 410 `Gone` status code

Answer: a. By providing a warning message in the API documentation

33. What is the advantage of using API versioning through headers?
- a. It separates versioning information from the URL, making it cleaner
 - b. It provides better performance than URL path versioning
 - c. It allows multiple versions to be handled in the URL
 - d. It simplifies API routing

Answer: a. It separates versioning information from the URL, making it cleaner

34. How can you ensure that an API version is only accessible to specific clients or environments?
- a. By using custom headers or query strings to control access
 - b. By restricting access based on IP addresses
 - c. By using API keys to limit access
 - d. By configuring environment-specific settings in `Startup.cs`

Answer: a. By using custom headers or query strings to control access

35. What is the recommended practice for managing API versions in a production environment?
- a. To use a clear versioning strategy and communicate changes to clients
 - b. To frequently change API versions without updating documentation
 - c. To avoid versioning and use only one version
 - d. To rely on default versioning provided by the framework

Answer: a. To use a clear versioning strategy and communicate changes to clients

36. How do you handle versioning when using Swagger with ASP.NET Core APIs?
- a. By configuring Swagger to include version information in the documentation
 - b. By using a separate Swagger setup for each API version
 - c. By adding versioning information in the request body
 - d. By setting version constraints in the `Startup.cs`

Answer: a. By configuring Swagger to include version information in the documentation

37. What is the purpose of the `MapToApiVersion` method in the context of API versioning?
- a. To map routes to specific API versions in the routing configuration
 - b. To configure API versioning options in `Startup.cs`
 - c. To handle versioning in the response headers
 - d. To define versioning rules in the `web.config`

Answer: a. To map routes to specific API versions in the routing configuration

38. Which versioning strategy involves embedding the version number within the media type of the request?
- a. Media type versioning
 - b. URL path versioning
 - c. Query string versioning
 - d. Header versioning

Answer: a. Media type versioning

39. What is the best approach for handling breaking changes in an API version?
- a. Introduce a new API version and deprecate the old version
 - b. Modify the existing version without changing the version number
 - c. Remove the old version immediately without notice
 - d. Merge breaking changes into the current version

Answer: a. Introduce a new API version and deprecate the old version

40. How can you configure the default API version in ASP.NET Core?
- a. By setting it in the `ApiVersioningOptions` configuration in `Startup.cs`
 - b. By including it in the route template

- c. By using the `X-API-Version` header
- d. By specifying it in the query string

Answer: a. By setting it in the `ApiVersioningOptions` configuration in `Startup.cs`

41. What does the `ApiVersion` attribute allow you to specify for an API action method?
- a. The version(s) of the API that the action method supports
 - b. The default version of the API
 - c. The versioning strategy to use
 - d. The deprecated status of the API version

Answer: a. The version(s) of the API that the action method supports

42. How can you test different API versions in an ASP.NET Core application?
- a. By using tools like Postman or Swagger to specify version information in the request
 - b. By modifying the `Startup.cs` file directly
 - c. By changing the URL path manually in the browser
 - d. By using different server environments for each version

Answer: a. By using tools like Postman or Swagger to specify version information in the request

43. What role does the `ApiVersion` attribute play in ASP.NET Core routing?
- a. It helps in routing requests to the appropriate API version
 - b. It defines the default version for the API
 - c. It manages the API versioning documentation
 - d. It handles versioning in the response headers

Answer: a. It helps in routing requests to the appropriate API version

44. Which method is recommended for API versioning if you need to support a variety of clients with different versioning requirements?
- a. Using a flexible versioning strategy that supports URL path, query string, header, and media type versioning
 - b. Using a single version for all clients
 - c. Avoiding versioning altogether
 - d. Updating the API version in the URL only

Answer: a. Using a flexible versioning strategy that supports URL path, query string, header, and media type versioning

45. How can you ensure backward compatibility when introducing a new version of an API?
- a. By maintaining the old version while introducing the new version and updating documentation
 - b. By immediately deprecating the old version
 - c. By removing the old version from the codebase
 - d. By merging breaking changes into the new version

Answer: a. By maintaining the old version while introducing the new version and updating documentation

SET-22

1. What is the primary purpose of caching in ASP.NET?
 - a. To improve application performance by storing frequently accessed data
 - b. To increase the size of web pages
 - c. To encrypt sensitive data
 - d. To handle user authentication

Answer: a. To improve application performance by storing frequently accessed data

2. Which caching method is used to store data on the server side in ASP.NET?
 - a. Server-side caching
 - b. Client-side caching
 - c. Distributed caching
 - d. Memory caching

Answer: a. Server-side caching

3. Which caching mechanism stores data on the client's browser?
 - a. Client-side caching
 - b. Server-side caching
 - c. Distributed caching
 - d. In-memory caching

Answer: a. Client-side caching

4. What is the default caching provider in ASP.NET?
 - a. In-memory cache
 - b. SQL Server cache
 - c. Redis cache
 - d. Azure cache

Answer: a. In-memory cache

5. How do you specify the duration for caching an item in ASP.NET?
 - a. By setting the absolute or sliding expiration time
 - b. By configuring cache expiration in the `web.config`
 - c. By specifying cache keys
 - d. By setting cache priorities

Answer: a. By setting the absolute or sliding expiration time

6. Which class is used for managing items in ASP.NET in-memory cache?
 - a. `MemoryCache`
 - b. `Cache`
 - c. `CacheItem`
 - d. `CacheManager`

Answer: a. `MemoryCache`

7. What does the `CacheItemPolicy` class define in the `MemoryCache` class?
 - a. Expiration and eviction policies for cached items
 - b. The priority of cache items

- c. The size of cached items
- d. The source of cached items

Answer: a. Expiration and eviction policies for cached items

8. How can you clear a specific item from the ASP.NET cache?
- a. By using the `Remove` method on the cache object
 - b. By setting the item's expiration time to now
 - c. By using the `Flush` method
 - d. By removing the cache entry from the configuration file

Answer: a. By using the `Remove` method on the cache object

9. What is the difference between absolute expiration and sliding expiration in caching?
- a. Absolute expiration sets a fixed time when the cache item will expire, while sliding expiration resets the expiration time with each access
 - b. Sliding expiration sets a fixed time, while absolute expiration resets the expiration time
 - c. Both methods work the same way
 - d. Absolute expiration is used for client-side caching, while sliding expiration is for server-side caching

Answer: a. Absolute expiration sets a fixed time when the cache item will expire, while sliding expiration resets the expiration time with each access

10. Which method is used to add an item to the cache in ASP.NET?
- a. `Add` method
 - b. `Put` method
 - c. `Insert` method
 - d. `Set` method

Answer: a. `Add` method

11. How can you implement cache dependency in ASP.NET?
- a. By associating a cached item with a file, database, or other resource
 - b. By setting the cache expiration policy
 - c. By using a cache key prefix
 - d. By configuring the cache in the `web.config`

Answer: a. By associating a cached item with a file, database, or other resource

12. What is a common use case for distributed caching in ASP.NET?
- a. Sharing cached data across multiple server instances in a web farm
 - b. Caching data for a single server
 - c. Storing data temporarily on the client's browser
 - d. Managing session state

Answer: a. Sharing cached data across multiple server instances in a web farm

13. Which caching approach uses `HttpRuntime.Cache` in ASP.NET Web Forms?
- a. In-memory caching
 - b. Distributed caching
 - c. Client-side caching
 - d. Database caching

Answer: a. In-memory caching

14. How can you handle cache invalidation when using ASP.NET caching?
- a. By setting expiration policies and cache dependencies
 - b. By manually removing cached items
 - c. By configuring cache size limits
 - d. By updating the cache entry

Answer: a. By setting expiration policies and cache dependencies

15. What is the purpose of the `CacheItemRemovedCallback` delegate?
- a. To handle the event when a cache item is removed
 - b. To add items to the cache
 - c. To update existing cache items
 - d. To clear all items from the cache

Answer: a. To handle the event when a cache item is removed

16. Which caching strategy involves storing data in a distributed cache system?
- a. Distributed caching
 - b. In-memory caching
 - c. Client-side caching
 - d. Persistent caching

Answer: a. Distributed caching

17. How can you monitor cache performance and usage in an ASP.NET application?
- a. By using performance counters and cache profiling tools
 - b. By examining the cache configuration in `web.config`
 - c. By reviewing server logs
 - d. By manually counting cache hits and misses

Answer: a. By using performance counters and cache profiling tools

18. What does the `Cache.Add` method do when an item with the same key already exists?
- a. It does not add the item and returns false
 - b. It replaces the existing item with the new one
 - c. It throws an exception
 - d. It updates the existing item with new expiration settings

Answer: a. It does not add the item and returns false

19. Which class is used for caching data across multiple web applications in ASP.NET?
- a. `SqlCacheDependency`
 - b. `RedisCache`
 - c. `ObjectCache`
 - d. `DistributedCache`

Answer: b. `RedisCache`

20. What is the advantage of using a sliding expiration in caching?
- a. It extends the cache duration with each access, keeping frequently accessed data in cache longer
 - b. It ensures data is always cached for a fixed duration
 - c. It removes data from the cache immediately after it expires
 - d. It makes the cache less reliable

Answer: a. It extends the cache duration with each access, keeping frequently accessed data in cache longer

21. How do you configure cache settings in an ASP.NET Core application?

- a. By using the `Startup` class and configuring services with `services.AddMemoryCache()`
- b. By modifying the `web.config` file
- c. By using the `Cache` class directly in code
- d. By setting cache parameters in the `appsettings.json` file

Answer: a. By using the `Startup` class and configuring services with `services.AddMemoryCache()`

22. Which caching strategy is suitable for large-scale web applications requiring high availability?

- a. Distributed caching
- b. Client-side caching
- c. In-memory caching
- d. File-based caching

Answer: a. Distributed caching

23. What is the purpose of cache expiration policies?

- a. To determine when a cache item should be removed or refreshed
- b. To encrypt cache data
- c. To compress cache data
- d. To synchronize cache data across servers

Answer: a. To determine when a cache item should be removed or refreshed

24. How can you implement caching in ASP.NET MVC using `ActionFilters`?

- a. By creating a custom `ActionFilterAttribute` and setting cache properties
- b. By configuring caching in `web.config`
- c. By using caching methods in controller actions
- d. By applying cache settings to view files

Answer: a. By creating a custom `ActionFilterAttribute` and setting cache properties

25. What is a potential drawback of using caching extensively?

- a. Increased memory usage and complexity in cache management
- b. Decreased application performance
- c. Increased network bandwidth usage
- d. Reduced application scalability

Answer: a. Increased memory usage and complexity in cache management

26. How do you clear all cached items in ASP.NET?

- a. By calling the `Cache.Remove` method on each item
- b. By using the `Cache.Clear` method
- c. By restarting the application
- d. By updating the cache configuration

Answer: b. By using the `Cache.Clear` method

27. What is the primary benefit of using a cache expiration policy based on time-to-live (TTL)?

- a. It automatically removes stale data after a specified period
- b. It ensures that cached data is always up-to-date

- c. It reduces the amount of data stored in the cache
- d. It provides an immediate response for all cache requests

Answer: a. It automatically removes stale data after a specified period

28. How do you implement caching for static data that does not change frequently?
- a. By using absolute expiration to cache the data for a long duration
 - b. By using sliding expiration to refresh the data regularly
 - c. By avoiding caching for static data
 - d. By configuring cache dependencies for the data

Answer: a. By using absolute expiration to cache the data for a long duration

29. What is the role of the `CacheDependency` class in caching?
- a. It specifies conditions under which a cached item should be invalidated
 - b. It encrypts cached data
 - c. It manages the size of the cache
 - d. It handles cache events

Answer: a. It specifies conditions under which a cached item should be invalidated

30. How can you handle cache coherence in a distributed caching environment?
- a. By using a distributed cache system that handles coherence internally
 - b. By manually synchronizing cache data across servers
 - c. By setting up replication between cache servers
 - d. By disabling caching on multiple servers

Answer: a. By using a distributed cache system that handles coherence internally

31. What is the effect of setting a high priority for a cached item?
- a. The item is less likely to be removed from the cache when memory is low
 - b. The item is removed from the cache more quickly
 - c. The item is always stored in the cache
 - d. The item uses more disk space

Answer: a. The item is less likely to be removed from the cache when memory is low

32. Which method is used to retrieve an item from the cache in ASP.NET?
- a. `Cache.Get`
 - b. `Cache.Fetch`
 - c. `Cache.Retrieve`
 - d. `Cache.Find`

Answer: a. `Cache.Get`

33. How can you implement cache sliding expiration for a specific item?
- a. By setting a sliding expiration time when adding the item to the cache
 - b. By configuring sliding expiration in the `web.config` file
 - c. By using cache dependency settings
 - d. By defining cache expiration in the `Startup` class

Answer: a. By setting a sliding expiration time when adding the item to the cache

34. What is the primary purpose of the `CacheItemRemovedReason` enumeration?
- a. To specify the reason why a cache item was removed

- b. To determine the priority of cache items
- c. To handle cache item expiration
- d. To configure cache item dependencies

Answer: a. To specify the reason why a cache item was removed

35. How can you use caching to improve the performance of a web application?
- a. By storing frequently accessed data in the cache to reduce database queries and processing time
 - b. By increasing the size of web pages
 - c. By minimizing the use of server resources
 - d. By reducing the amount of data sent to clients

Answer: a. By storing frequently accessed data in the cache to reduce database queries and processing time

36. Which method allows you to specify a callback function when a cache item is removed?
- a. `Cache.Add` with the `CacheItemRemovedCallback` delegate
 - b. `Cache.Insert` with the `CacheItemRemovedCallback` delegate
 - c. `Cache.Put` with the `CacheItemRemovedCallback` delegate
 - d. `Cache.Update` with the `CacheItemRemovedCallback` delegate

Answer: a. `Cache.Add` with the `CacheItemRemovedCallback` delegate

37. What is the difference between a cache hit and a cache miss?
- a. A cache hit occurs when the requested data is found in the cache, while a cache miss occurs when it is not found
 - b. A cache miss occurs when the requested data is found in the cache, while a cache hit occurs when it is not found
 - c. A cache hit means the data was recently added, while a cache miss means it was recently removed
 - d. A cache miss occurs due to a network issue, while a cache hit means no issues

Answer: a. A cache hit occurs when the requested data is found in the cache, while a cache miss occurs when it is not found

38. How can you implement caching for frequently accessed web service data?
- a. By using an in-memory cache or distributed cache to store responses
 - b. By caching data in a file system
 - c. By storing data in a database
 - d. By using server-side session state

Answer: a. By using an in-memory cache or distributed cache to store responses

39. What is the role of the `CacheItemPriority` enumeration?
- a. To specify the priority of cached items when memory is low
 - b. To define the expiration time of cached items
 - c. To manage cache dependencies
 - d. To set cache item encryption settings

Answer: a. To specify the priority of cached items when memory is low

40. How does ASP.NET Core handle caching compared to traditional ASP.NET?
- a. ASP.NET Core uses a unified caching API and supports various caching providers
 - b. ASP.NET Core does not support caching

- c. ASP.NET Core only supports in-memory caching
- d. ASP.NET Core requires external libraries for caching

Answer: a. ASP.NET Core uses a unified caching API and supports various caching providers

41. What caching technique is best suited for temporary data that changes frequently?
- a. Sliding expiration
 - b. Absolute expiration
 - c. Distributed caching
 - d. In-memory caching

Answer: a. Sliding expiration

42. How do you configure a distributed cache in ASP.NET Core?
- a. By using the `AddDistributedMemoryCache`, `AddDistributedSqlServerCache`, or similar methods in the `Startup` class
 - b. By setting up cache settings in the `web.config` file
 - c. By using the `Cache` class directly
 - d. By modifying cache configuration in `appsettings.json`

Answer: a. By using the `AddDistributedMemoryCache`, `AddDistributedSqlServerCache`, or similar methods in the `Startup` class

43. What is a benefit of using `ResponseCache` in ASP.NET Core?
- a. It allows you to control caching of responses at the HTTP level
 - b. It stores data on the server side
 - c. It caches data in the client's browser
 - d. It automatically handles cache dependencies

Answer: a. It allows you to control caching of responses at the HTTP level

44. How does the `MemoryCache` class handle cache item expiration?
- a. It supports both absolute and sliding expiration policies
 - b. It only supports absolute expiration
 - c. It handles expiration based on cache size limits
 - d. It requires manual implementation of expiration logic

Answer: a. It supports both absolute and sliding expiration policies

SET-23

45. **What is the most common method to publish an ASP.NET application from Visual Studio?**

- A. FTP
- B. Publish to Folder
- C. Web Deploy
- D. Docker

Answer: C

46. **Which file is essential when publishing an ASP.NET Web Forms application?**

- A. Global.asax
- B. web.config
- C. appsettings.json
- D. Startup.cs

Answer: B

47. **What is the primary purpose of the appsettings.json file in an ASP.NET Core app?**

- A. To configure routing
- B. To store application settings and configuration
- C. To manage authentication
- D. To define controller actions

Answer: B

48. **Which Visual Studio option allows you to publish an ASP.NET app directly to Azure?**

- A. Web Deploy
- B. FTP
- C. Azure App Service
- D. File System

Answer: C

49. **What does the 'Framework-dependent deployment' option mean when publishing an ASP.NET Core app?**

- A. The application includes the .NET runtime
- B. The application depends on an installed .NET runtime on the host
- C. The application does not require any runtime
- D. The application includes all dependencies

Answer: B

50. **Which deployment option packages the application as a single executable?**

- A. Self-contained deployment
- B. Framework-dependent deployment
- C. Web Deploy
- D. Docker deployment

Answer: A

51. **What is the primary purpose of Web Deploy in ASP.NET applications?**

- A. To create a package for local deployment
- B. To manage database connections
- C. To publish an application to IIS, Azure, or a remote server
- D. To convert code into machine language

Answer: C

52. **Which file is generated when publishing an ASP.NET app to Azure using the Web Deploy method?**

- A. .zip
 - B. .pubxml
 - C. .json
 - D. .config
- Answer: B**

53. **How can you specify environment-specific configurations when publishing an ASP.NET Core app?**

- A. Using web.config
 - B. Setting environment variables
 - C. Modifying Startup.cs
 - D. Using appsettings.{Environment}.json
- Answer: D**

54. **Which tool can you use to publish an ASP.NET Core application from the command line?**

- A. dotnet publish
 - B. dotnet run
 - C. dotnet deploy
 - D. nuget pack
- Answer: A**

55. **What is the purpose of the Publish folder in an ASP.NET application?**

- A. To store temporary files
 - B. To contain the final deployable version of the app
 - C. To manage database connections
 - D. To cache compiled assemblies
- Answer: B**

56. **How can you deploy an ASP.NET application using Docker?**

- A. Create a Dockerfile and build a container image
 - B. Use Web Deploy
 - C. Copy files manually to the server
 - D. Modify appsettings.json
- Answer: A**

57. **What is the advantage of using a self-contained deployment for ASP.NET Core applications?**

- A. The app can run on any machine without needing the .NET runtime pre-installed
 - B. The app is optimized for cloud hosting
 - C. The app has a smaller file size
 - D. The app runs faster
- Answer: A**

58. **Which command can be used to publish an ASP.NET Core app with Release configuration?**

- A. dotnet publish --release
 - B. dotnet publish -c Release
 - C. dotnet run --release
 - D. dotnet build --release
- Answer: B**

59. **In Visual Studio, where can you configure advanced publishing options like connection strings or app settings for Azure?**

- A. Solution Explorer

- B. Publish Profile settings
- C. Properties Window
- D. Startup.cs

Answer: B

60. **What does the `dotnet publish` command do in ASP.NET Core?**

- A. Compiles and packages the application for deployment
- B. Starts the development server
- C. Installs NuGet packages
- D. Sets up the database

Answer: A

61. **Which file extension is typically used for publish profiles in Visual Studio?**

- A. .json
- B. .xml
- C. .pubxml
- D. .yaml

Answer: C

62. **What is a benefit of using Azure App Service for publishing an ASP.NET Core app?**

- A. Integrated CI/CD pipeline support
- B. Requires no configuration
- C. Local database support only
- D. Automatic compilation of code

Answer: A

63. **What is the role of the `RuntimeIdentifier` in an ASP.NET Core publish configuration?**

- A. To specify which .NET runtime to include
- B. To define the target platform (e.g., win-x64, linux-x64)
- C. To manage application settings
- D. To configure the database

Answer: B

64. **Which of the following methods allows you to publish an ASP.NET application to IIS?**

- A. Web Deploy
- B. FTP
- C. Publish to Folder
- D. All of the above

Answer: D

65. **What is the main difference between Framework-dependent and Self-contained deployment in ASP.NET Core?**

- A. Framework-dependent deployment includes the runtime; self-contained does not
- B. Framework-dependent requires the runtime to be installed on the server; self-contained includes it
- C. Self-contained requires less disk space
- D. Framework-dependent runs on any OS

Answer: B

66. **Which file needs to be updated with environment-specific configuration when publishing to Azure?**

- A. web.config
- B. Startup.cs
- C. appsettings.{Environment}.json
- D. Global.asax

Answer: C

67. **What is a benefit of publishing an ASP.NET app as a Docker container?**

- A. Simplified version control
- B. Cross-platform support
- C. Larger deployment size
- D. Requires IIS

Answer: B

68. **When publishing an ASP.NET Core application to a Linux server, which server is commonly used?**

- A. IIS
- B. Nginx
- C. Apache
- D. Kestrel

Answer: B

69. **Which of the following is NOT a valid deployment option for an ASP.NET application?**

- A. File System
- B. GitHub Actions
- C. Web Deploy
- D. Google Play Store

Answer: D

70. **How do you manage environment-specific configurations when deploying to Azure App Service?**

- A. Use App Service Configuration settings
- B. Modify web.config
- C. Modify appsettings.json directly
- D. Use Docker

Answer: A

71. **Which command in the Azure CLI is used to deploy an ASP.NET application to Azure App Service?**

- A. az webapp deploy
- B. az appservice publish
- C. az appservice plan create
- D. az publish webapp

Answer: A

72. **What is the purpose of the dotnet store command in ASP.NET Core?**

- A. To install NuGet packages
- B. To package libraries for sharing
- C. To publish the app to a cloud service
- D. To build and cache platform-specific packages

Answer: D

73. **Which service in Azure is commonly used to deploy ASP.NET Core web applications?**

- A. Azure App Service
- B. Azure Virtual Machines
- C. Azure Blob Storage
- D. Azure CDN

Answer: A

74. **What is the advantage of using GitHub Actions to publish an ASP.NET Core app?**

- A. Built-in CI/CD pipelines
- B. Local development only
- C. Requires manual deployment
- D. No support for Linux hosting

Answer: A

75. **Which command can be used to clean the output folder before publishing an ASP.NET app?**

- A. `dotnet clean`
- B. `dotnet reset`
- C. `dotnet remove`
- D. `dotnet unpublish`

Answer: A

76. **How can you include database migration scripts when publishing an ASP.NET Core app?**

- A. Add them to the Publish Profile settings
- B. Modify `Startup.cs`
- C. Use Entity Framework Core migrations
- D. Add them to the `web.config` file

Answer: C

77. **What does the “Remove additional files at destination” option do in Visual Studio’s publish settings?**

- A. It deletes all files in the destination folder before publishing
- B. It keeps the original files intact during publishing
- C. It archives the existing files
- D. It excludes certain files from publishing

Answer: A

78. **Which file is essential when publishing an ASP.NET Core app to IIS?**

- A. `web.config`
- B. `appsettings.json`
- C. `Global.asax`
- D. `Program.cs`

Answer: A

79. **What is the role of `app_offline.htm` in an ASP.NET app during publishing?**

- A. To temporarily take the app offline during deployment
- B. To show an error page
- C. To handle routing
- D. To configure application settings

Answer: A

80. **Which of the following deployment strategies ensures zero downtime for ASP.NET Core apps?**

- A. Blue-Green Deployment
- B. Single Server Deployment
- C. Manual FTP Deployment
- D. Localhost Deployment

Answer: A

81. **Which of the following tools can be used for automated deployments in Azure DevOps?**

- A. Pipelines
- B. FTP
- C. Docker Swarm
- D. IIS

Answer: A

82. **Which extension is used for transforming configuration files like `web.config` during publishing?**

- A. `.xml`
- B. `.transform`
- C. `.pubxml`
- D. `.json`

Answer: B

83. **What is the advantage of using the `dotnet watch` command when developing an ASP.NET Core app?**

- A. It automatically rebuilds and restarts the app on code changes
- B. It deploys the app to the server
- C. It publishes the app to Azure
- D. It updates NuGet packages

Answer: A

84. **Which environment variable is commonly used to specify the hosting environment in ASP.NET Core?**

- A. `ASPNETCORE_ENVIRONMENT`
- B. `NET_ENV`
- C. `CORE_ENVIRONMENT`
- D. `APP_ENV`

Answer: A

85. **What is the default publishing method when using the Publish option in Visual Studio for ASP.NET apps?**

- A. File System
- B. Web Deploy
- C. FTP
- D. Docker

Answer: B

86. **Which tool can be used to package an ASP.NET Core app into a single executable?**

- A. `dotnet publish` with `--self-contained`
- B. `dotnet build`
- C. `nuget pack`
- D. `dotnet run`

Answer: A

87. **What does “Azure App Service” provide when publishing an ASP.NET Core app?**

- A. Scalable web hosting with built-in CI/CD options
- B. Local-only hosting
- C. High latency and slow performance
- D. No support for custom domains

Answer: A

88. **How do you ensure that an ASP.NET Core app runs in a specific environment when deployed?**

- A. Set the ASPNETCORE_ENVIRONMENT variable
- B. Modify Startup.cs
- C. Add a new web.config file
- D. Use the dotnet setenv command

Answer: A

89. **Which feature allows you to manage secrets securely when publishing an ASP.NET app to Azure?**

- A. Azure Key Vault
- B. Azure CDN
- C. Web Deploy
- D. FTP

Answer: A

SET-24

1. **What is the primary purpose of Docker in ASP.NET applications?**

- A. To manage databases
- B. To containerize applications for consistent deployment
- C. To compile code
- D. To handle HTTP requests

Answer: B

2. **Which file defines the Docker image configuration for an ASP.NET application?**

- A. Dockerfile
- B. docker-compose.yml
- C. appsettings.json
- D. web.configHow

Answer: A

3. **What is the role of the ENTRYPOINT instruction in a Dockerfile?**

- A. To specify the command to run when the container starts
- B. To define environment variables
- C. To copy files into the container
- D. To expose ports

Answer: A

4. **Which Docker command is used to build an image from a Dockerfile?**

- A. docker build
- B. docker run
- C. docker create
- D. docker pull

Answer: A

5. **How can you run an ASP.NET application in a Docker container?**

- A. Use docker run to start a container from the image
- B. Use docker build
- C. Use docker-compose
- D. Use docker exec

Answer: A

6. **What does the EXPOSE instruction in a Dockerfile do?**

- A. Defines the ports that the container listens on
- B. Copies files into the container
- C. Sets environment variables
- D. Specifies the base image

Answer: A

7. **Which command is used to view the running Docker containers?**

- A. docker ps
- B. docker list
- C. docker images
- D. docker status

Answer: A

8. **What is the purpose of the docker-compose.yml file?**

- A. To define and run multi-container Docker applications
- B. To configure environment variables
- C. To build Docker images
- D. To run individual containers

Answer: A

9. **How can you remove an unused Docker image?**

- A. docker rmi
- B. docker rm
- C. docker delete

D. `docker stop`

Answer: A

10. **Which base image is commonly used for ASP.NET Core applications in Docker?**

A. `mcr.microsoft.com/dotnet/aspnet`

B. `ubuntu`

C. `alpine`

D. `mcr.microsoft.com/dotnet/sdk`

Answer: A

11. **How can you persist data across Docker container restarts?**

A. Use Docker volumes

B. Use Docker networks

C. Use Docker secrets

D. Use `docker exec`

Answer: A

12. **What does the `docker run` command do?**

A. It creates and starts a new container

B. It builds a Docker image

C. It removes a container

D. It lists all images

Answer: A

13. **How can you share environment variables between Docker containers?**

A. Use Docker Compose and define them in `docker-compose.yml`

B. Set them in the Dockerfile

C. Use the `docker run` command with `-e` options

D. All of the above

Answer: D

14. **What is a Docker volume used for?**

A. To persist and manage data in containers

B. To define the container's network

C. To build Docker images

D. To set container environment variables

Answer: A

15. **Which Docker command is used to stop a running container?**

A. `docker stop`

B. `docker pause`

C. `docker kill`

D. `docker halt`

Answer: A

16. **What is the purpose of the `docker-compose up` command?**

A. To start up all services defined in `docker-compose.yml`

B. To build Docker images

C. To remove stopped containers

D. To view container logs

Answer: A

17. **What is the purpose of the `docker build` command?**

A. To create a Docker image from a Dockerfile

B. To start a Docker container

C. To list Docker images

D. To remove unused images

Answer: A

18. **Which Dockerfile instruction sets the working directory inside the container?**

A. `WORKDIR`

B. `CMD`

C. `RUN`

D. VOLUME

Answer: A

19. **How can you view the logs of a running Docker container?**

- A. `docker logs`
- B. `docker inspect`
- C. `docker ps`
- D. `docker status`

Answer: A

20. **Which command can be used to build and run multi-container Docker applications?**

- A. `docker-compose`
- B. `docker run`
- C. `docker build`
- D. `docker exec`

Answer: A

21. **How do you remove all stopped containers in Docker?**

- A. `docker container prune`
- B. `docker rm -f`
- C. `docker stop all`
- D. `docker delete`

Answer: A

22. **What does the `CMD` instruction in a Dockerfile do?**

- A. Specifies the default command to run when the container starts
- B. Sets environment variables
- C. Exposes ports
- D. Copies files into the container

Answer: A

23. **Which file format is used for defining services in Docker Compose?**

- A. YAML
- B. JSON
- C. XML
- D. TOML

Answer: A

24. **How can you scale Docker services defined in a `docker-compose.yml` file?**

- A. Use the `docker-compose scale` command
- B. Modify the `docker-compose.yml` file to set the number of replicas
- C. Use the `docker run` command with `--scale`
- D. Use Docker Swarm

Answer: B

25. **What is a Docker image?**

- A. A read-only template used to create Docker containers
- B. A running instance of a container
- C. A file system snapshot
- D. A volume for data persistence

Answer: A

26. **What is the purpose of the `docker network` command?**

- A. To manage Docker networks
- B. To create Docker volumes
- C. To build Docker images
- D. To remove Docker containers

Answer: A

27. **How can you update a Docker image?**

- A. Use `docker pull` to get the latest version from a repository
- B. Edit the Dockerfile and rebuild the image
- C. Use `docker build` with updated instructions

D. All of the above

Answer: D

28. **How can you debug a Docker container?**

- A. Use `docker exec` to start an interactive shell
- B. Use `docker logs` to view logs
- C. Attach a debugger to the container
- D. All of the above

Answer: D

29. **Which Docker command is used to create a Docker network?**

- A. `docker network create`
- B. `docker create network`
- C. `docker network add`
- D. `docker network new`

Answer: A

30. **What is a Docker secret?**

- A. A secure way to manage sensitive data like passwords
- B. A special type of Docker container
- C. A hidden image repository
- D. An encrypted volume

Answer: A

31. **How can you restrict a Docker container's CPU and memory usage?**

- A. Use the `--memory` and `--cpus` options with `docker run`
- B. Set limits in the Dockerfile
- C. Modify the `docker-compose.yml` file
- D. Both A and C

Answer: D

32. **What does the `docker-compose down` command do?**

- A. Stops and removes all containers defined in the `docker-compose.yml`
- B. Builds Docker images
- C. Lists running containers
- D. Pauses Docker containers

Answer: A

33. **How can you ensure that an ASP.NET Core application uses a specific port when running in Docker?**

- A. Set the `ASPNETCORE_URLS` environment variable
- B. Modify the Dockerfile to expose the port
- C. Change the port in `appsettings.json`
- D. Use the `--port` option with `docker run`

Answer: A

34. **Which Docker command is used to view detailed information about a container?**

- A. `docker inspect`
- B. `docker info`
- C. `docker details`
- D. `docker status`

Answer: A

35. **How can you handle application configuration in a Dockerized ASP.NET Core app?**

- A. Use environment variables
- B. Modify `appsettings.json` inside the container
- C. Use Docker secrets
- D. Both A and C

Answer: D

36. **What is the purpose of the `docker-compose build` command?**

- A. To build or rebuild Docker images defined in `docker-compose.yml`
- B. To start the Docker containers
- C. To stop Docker containers

D. To remove Docker images

Answer: A

37. **How do you add a health check to a Docker container?**

A. Use the HEALTHCHECK instruction in the Dockerfile

B. Configure health checks in `docker-compose.yml`

C. Use Docker Swarm for health management

D. Add a health check in `appsettings.json`

Answer: A

38. **What is the purpose of the `docker tag` command?**

A. To create a new tag for an image

B. To build Docker images

C. To push images to a repository

D. To run a Docker container

Answer: A

39. **Which of the following is a common best practice when Dockerizing ASP.NET Core applications?**

A. Use a multi-stage build to keep the final image small

B. Expose all ports in the Dockerfile

C. Run the container as the root user

D. Include sensitive data directly in the Dockerfile

Answer: A

40. **How can you remove all unused Docker images and containers?**

A. Use `docker system prune`

B. Use `docker clean`

C. Use `docker rm -f`

D. Use `docker remove`

Answer: A

41. **What is the purpose of the `.dockerignore` file?**

A. To exclude files and directories from being added to the Docker image

B. To specify environment variables

C. To define Docker network settings

D. To set image tags

Answer: A

42. **How can you deploy a Dockerized ASP.NET application to a Kubernetes cluster?**

A. Create Kubernetes deployment files and apply them with `kubectl`

B. Use Docker Swarm

C. Deploy directly from Docker Compose

D. Use the `docker deploy` command

Answer: A

43. **Which Docker command can be used to remove a stopped container?**

A. `docker rm`

B. `docker stop`

C. `docker delete`

D. `docker kill`

Answer: A

44. **What is a Docker container?**

A. A lightweight, standalone, and executable package that includes everything needed to run an application

B. A virtual machine

C. A storage volume

D. A network configuration

Answer: A

45. **How do you ensure that Docker containers run with the latest updates?**

A. Regularly rebuild and redeploy Docker images

B. Update the container manually

- C. Use the `docker update` command
- D. Modify the Dockerfile only

Answer: A

46. **What is the purpose of the `VOLUME` instruction in a Dockerfile?**

- A. To create a mount point with the specified path and mark it as holding externally mounted volumes from native host or other containers
- B. To expose ports
- C. To copy files into the container
- D. To set environment variables

Answer: A

47. **How do you check the version of Docker installed on your system?**

- A. `docker --version`
- B. `docker version`
- C. `docker info`
- D. `docker status`

Answer: B

48. **What is a multi-stage build in Docker?**

- A. A process that uses multiple `FROM` statements to build an image in stages, resulting in smaller final images
- B. A way to deploy multiple Docker containers
- C. A method for managing Docker networks
- D. A feature for scaling containers

Answer: A

49. **Which Docker command helps you to see the file system of a running container?**

- A. `docker exec -it <container_id> /bin/sh`
- B. `docker inspect`
- C. `docker files`
- D. `docker container fs`

Answer: A

50. **What does the `docker push` command do?**

- A. Pushes a Docker image to a repository
- B. Runs a Docker container
- C. Builds a Docker image
- D. Stops a Docker container

Answer: A

51. **How can you make Docker logs easier to manage for a large application?**

- A. Use a logging driver to send logs to an external system
- B. Log to the console
- C. Save logs to a file inside the container
- D. Ignore logging

Answer: A

52. **What does the `docker-compose logs` command do?**

- A. Displays logs for services defined in `docker-compose.yml`
- B. Starts Docker containers
- C. Builds Docker images
- D. Lists all Docker images

Answer: A

53. **Which Docker feature allows you to manage container configurations and secrets securely?**

- A. Docker secrets
- B. Docker volumes
- C. Docker networks
- D. Docker environment variables

Answer: A

54. **How do you specify a different environment for a Dockerized ASP.NET application?**

- A. Set the ASPNETCORE_ENVIRONMENT environment variable in the Dockerfile or docker-compose.yml
- B. Modify the Dockerfile to include environment settings
- C. Change settings directly in the application code
- D. Use docker run with --env option

Answer: A

55. **What is the primary benefit of using Docker for development and deployment?**

- A. Consistency across different environments
- B. Faster code compilation
- C. Better performance of the application
- D. Easier code management

Answer: A

56. **How can you create a Docker image for an ASP.NET Core application?**

- A. Write a Dockerfile and use docker build
- B. Use Visual Studio's built-in Docker support
- C. Use docker-compose to build the image
- D. Both A and B

Answer: D

57. **Which Docker command is used to create a new container from an image?**

- A. docker create
- B. docker run
- C. docker start
- D. docker init

Answer: B

58. **What is the purpose of the USER instruction in a Dockerfile?**

- A. To set the user that the container runs as
- B. To create a new Docker image
- C. To copy files into the container
- D. To expose ports

Answer: A

59. **How can you restrict network access to a Docker container?**

- A. Use Docker network settings and firewall rules
- B. Configure network settings in docker-compose.yml
- C. Use --network options with docker run
- D. All of the above

Answer: D

60. **What is a Docker swarm?**

- A. A mode for Docker that provides clustering and orchestration of Docker containers
- B. A type of Docker container
- C. A volume for storing data
- D. A logging driver

Answer: A

61. **How do you test Docker images locally before deploying them?**

- A. Use docker run to test the image in a local container
- B. Use docker build
- C. Deploy the image to a remote server
- D. Push the image to a repository

Answer: A

62. **What is the role of Docker Hub?**

- A. A public registry for Docker images
- B. A tool for managing Docker containers
- C. A logging system for Docker containers
- D. A Docker configuration file

Answer: A

63. **How can you ensure that a Docker container has access to a specific directory on the host system?**

- A. Use Docker volumes to mount the host directory into the container
- B. Set permissions in the Dockerfile
- C. Use the `--mount` option with `docker run`
- D. Both A and C

Answer: D

64. **What is the use of the `docker-compose down` command?**

- A. To stop and remove all containers defined in the `docker-compose.yml`
- B. To build Docker images
- C. To start Docker containers
- D. To view container logs

Answer: A

SET-25

1. **What is the primary purpose of load balancing in ASP.NET applications?**
 - A. To distribute incoming traffic across multiple servers to ensure no single server becomes a bottleneck.
 - B. To cache static content on the client side.
 - C. To enhance database performance by optimizing queries.
 - D. To manage user authentication and authorization.

Answer: A

2. **Which component is often used to implement load balancing for ASP.NET applications?**
 - A. A load balancer or reverse proxy server.
 - B. A database server.
 - C. A client-side script.
 - D. A web browser.

Answer: A

3. **How does horizontal scaling differ from vertical scaling in ASP.NET applications?**
 - A. Horizontal scaling involves adding more servers, while vertical scaling involves adding more resources to an existing server.
 - B. Horizontal scaling increases server capacity, while vertical scaling improves network bandwidth.
 - C. Horizontal scaling optimizes database performance, while vertical scaling enhances client-side operations.
 - D. Horizontal scaling reduces load on individual servers, while vertical scaling distributes load across multiple databases.

Answer: A

4. **What is a common method to achieve load balancing for ASP.NET applications hosted in the cloud?**
 - A. Using cloud-based load balancer services such as Azure Load Balancer or AWS Elastic Load Balancing.
 - B. Configuring local network routers for load distribution.
 - C. Implementing client-side load balancing algorithms.

5.
 - D. Relying on static IP addresses for server distribution.

Answer: A

6. **In a load-balanced environment, how does session state management typically need to be handled?**
 - A. By using a centralized session state server or distributed cache.
 - B. By storing session state only on the client side.
 - C. By configuring session state to be stored locally on each server.
 - D. By disabling session state management entirely.

Answer: A

7. **Which of the following strategies can be used to handle state in a load-balanced ASP.NET application?**
 - A. Using a distributed cache like Redis or SQL Server for session state.
 - B. Storing session state in local memory on each server.
 - C. Using cookies to maintain session state on the client side.
 - D. Relying on temporary files stored on each server.

Answer: A

8. **What is the role of a reverse proxy in load balancing?**
 - A. To distribute incoming requests to multiple backend servers while providing a single entry point for clients.
 - B. To cache responses from backend servers for faster retrieval.
 - C. To encrypt data sent between clients and backend servers.

D. To manage database connections and queries.

Answer: A

9. **Which Azure service can be used to manage load balancing for ASP.NET applications deployed on virtual machines?**

A. Azure Load Balancer.
B. Azure Blob Storage.
C. Azure SQL Database.
D. Azure Key Vault.

Answer: A

10. **How can you ensure high availability of an ASP.NET application in a load-balanced environment?**

A. By deploying the application across multiple servers and data centers.
B. By using a single high-capacity server.
C. By relying on a local disk storage solution.
D. By configuring a single database instance.

Answer: A

11. **What is a common approach to database scaling in conjunction with load balancing for ASP.NET applications?**

A. Implementing database sharding or replication to distribute load across multiple databases.
B. Increasing the capacity of a single database instance.
C. Relying on a single high-performance database server.
D. Caching database queries on the client side.

Answer: A

12. **Which of the following is a benefit of horizontal scaling for ASP.NET applications?**

A. It allows for handling increased traffic by adding more servers to the pool.
B. It enhances the performance of a single server by upgrading its hardware.
C. It simplifies database management by using a single database server.
D. It reduces network latency by optimizing client-side scripts.

Answer: A

13. **What is a key consideration when implementing load balancing for ASP.NET applications with regard to security?**

A. Ensuring that load balancers are configured to handle SSL termination securely.
B. Disabling SSL/TLS encryption between the load balancer and backend servers.
C. Using a single authentication method across all servers.
D. Relying on client-side security measures exclusively.

Answer: A

14. **How can caching improve the performance of a load-balanced ASP.NET application?**

A. By reducing the load on backend servers and databases through cached responses.
B. By increasing the capacity of individual servers.
C. By optimizing client-side JavaScript code.
D. By minimizing the use of database queries.

Answer: A

15. **Which technique is commonly used to handle session affinity in a load-balanced environment?**

A. Configuring sticky sessions or session affinity to route a client's requests to the same server.
B. Storing all session data in a local file on each server.
C. Relying on client-side session storage only.
D. Using separate session management systems for each server.

Answer: A

16. **What is the benefit of using a distributed cache for session state in a load-balanced ASP.NET application?**

A. It allows session data to be shared across multiple servers, ensuring consistent user experience.

- B. It reduces the need for multiple servers.
- C. It simplifies the application architecture by avoiding the need for load balancing.
- D. It improves the performance of a single server.

Answer: A

17. **Which of the following tools or services can be used to monitor and manage load balancing in an ASP.NET application?**

- A. Application Insights or Azure Monitor.
- B. Local system logs.
- C. Basic text editors.
- D. Static web server logs.

Answer: A

18. **What is the purpose of implementing auto-scaling in a cloud-based ASP.NET application?**

- A. To automatically adjust the number of running instances based on traffic and load.
- B. To manually add or remove servers based on traffic patterns.
- C. To increase the capacity of individual servers manually.
- D. To implement static load distribution across servers.

Answer: A

19. **How does a content delivery network (CDN) contribute to load balancing for ASP.NET applications?**

- A. By caching and delivering static content from edge servers closer to the client.
- B. By distributing incoming requests to multiple backend servers.
- C. By managing database connections and queries.
- D. By handling real-time communication between clients and servers.

Answer: A

20. **What is the impact of using a web farm in load balancing for ASP.NET applications?**

- A. It increases capacity and reliability by distributing load across multiple web servers.
- B. It reduces the number of servers required for handling traffic.
- C. It simplifies database management by using a single instance.
- D. It eliminates the need for caching mechanisms.

Answer: A

21. **Which of the following is a method to ensure database consistency in a load-balanced environment?**

- A. Using database replication or distributed databases to maintain consistency across multiple instances.
- B. Relying on a single high-performance database server.
- C. Storing database queries on the client side.
- D. Implementing local disk-based storage for each server.

Answer: A

22. **How can a load balancer improve fault tolerance for an ASP.NET application?**

- A. By redirecting traffic from failed servers to healthy servers.
- B. By increasing the hardware capabilities of individual servers.
- C. By optimizing client-side code.
- D. By configuring static file delivery.

Answer: A

23. **What is session affinity (sticky sessions) and why is it important in load balancing for ASP.NET applications?**

- A. It ensures that a client's requests are always routed to the same server, which is important for maintaining session state.
- B. It distributes requests evenly across all servers regardless of session state.
- C. It balances load based on static data configurations.
- D. It handles authentication and authorization uniformly across all servers.

Answer: A

24. **Which of the following is an approach to scaling an ASP.NET application's infrastructure?**

- A. Using cloud services to scale out by adding more instances.
- B. Upgrading the CPU and RAM of a single server.
- C. Increasing the local disk space of individual servers.
- D. Reducing the number of active connections to the database.

Answer: A

25. How does the use of a load balancer affect the deployment of ASP.NET applications?

- A. It provides a single point of access and distributes traffic across multiple instances, improving scalability and reliability.
- B. It requires manual configuration of each server's deployment settings.
- C. It simplifies the deployment process by eliminating the need for multiple instances.
- D. It manages the application's internal logic and business rules.

Answer: A

26. What role does health monitoring play in load balancing for ASP.NET applications?

- A. It ensures that only healthy servers are receiving traffic and helps detect and respond to server failures.
- B. It optimizes database query performance.
- C. It manages session state across servers.
- D. It handles real-time communication between clients and servers.

Answer: A

27. How can you handle application configuration settings in a load-balanced ASP.NET environment?

- A. By using centralized configuration management tools or services.
- B. By configuring each server independently.
- C. By storing configuration settings in local server files.
- D. By relying on client-side configuration.

Answer: A

28. Which strategy helps manage database performance in a load-balanced ASP.NET application?

- A. Implementing database indexing and query optimization techniques.
- B. Relying on client-side data storage solutions.
- C. Increasing the disk space on individual database servers.
- D. Using static content delivery for database queries.

Answer: A

29. How can a CDN (Content Delivery Network) complement load balancing in an ASP.NET application?

- A. By offloading the delivery of static assets, reducing the load on application servers.
- B. By balancing traffic among application servers.
- C. By managing real-time data synchronization between servers.
- D. By handling backend database connections.

Answer: A

30. What is the benefit of using distributed caching in a load-balanced ASP.NET application?

- A. It improves performance by caching frequently accessed data across multiple servers.
- B. It simplifies the deployment of application servers.
- C. It increases the disk space of individual servers.
- D. It reduces the need for network load balancing.

Answer: A

31. What is a web farm and how does it relate to load balancing for ASP.NET applications?

- A. A web farm is a collection of servers that work together to handle incoming requests and provide load balancing and fault tolerance.
- B. A web farm is a single high-performance server configured for load balancing.
- C. A web farm is a local file storage solution for web applications.
- D. A web farm is a database management system for scaling applications.

Answer: A

32. How does Azure's Application Gateway support load balancing for ASP.NET applications?

- A. By providing application-level load balancing and SSL termination.
- B. By managing database connections and queries.
- C. By increasing the bandwidth of a single server.
- D. By caching static content on the client side.

Answer: A

33. What is the purpose of using sticky sessions in a load-balanced ASP.NET environment?

- A. To ensure that a client's requests are consistently routed to the same server for session state consistency.
- B. To balance traffic evenly across all servers regardless of session state.
- C. To optimize client-side caching mechanisms.
- D. To manage database connections efficiently.

Answer: A

34. What is the effect of scaling out an ASP.NET application horizontally?

- A. It increases the number of servers handling requests, improving scalability and fault tolerance.
- B. It enhances the performance of a single server.
- C. It reduces the need for load balancing.
- D. It optimizes client-side scripting.

Answer: A

35. How does the use of a distributed cache benefit load balancing in ASP.NET applications?

- A. It provides a shared cache that all servers can access, reducing the load on databases and improving response times.
- B. It increases the local memory capacity of individual servers.
- C. It manages traffic distribution among servers.
- D. It simplifies client-side data management.

Answer: A

36. Which method helps in achieving high availability for an ASP.NET application?

- A. Deploying the application across multiple servers and data centers to ensure redundancy and failover capabilities.
- B. Using a single high-capacity server for all requests.
- C. Configuring static file storage for high availability.
- D. Relying on client-side resilience strategies.

Answer: A

37. How can you optimize database performance in a load-balanced ASP.NET application?

- A. By using techniques such as database replication, sharding, and indexing.
- B. By relying on client-side data storage.
- C. By increasing the local memory of individual database servers.
- D. By minimizing the use of queries and connections.

Answer: A

38. What is the primary function of a load balancer in a cloud-based ASP.NET application?

- A. To distribute incoming requests across multiple servers to ensure balanced load and high availability.
- B. To manage client-side interactions and user interfaces.
- C. To optimize server-side code performance.
- D. To handle real-time data synchronization.

Answer: A

39. Which of the following is a typical feature of a load balancer used for ASP.NET applications?

- A. SSL offloading, health checks, and traffic distribution.

- B. Client-side script optimization and caching.
- C. Single-server deployment and local file storage.
- D. Static content delivery and database query management.

Answer: A

40. **What is a key consideration when implementing load balancing for ASP.NET applications with respect to user sessions?**

- A. Ensuring session state is consistently managed across all servers, often through centralized storage or distributed caching.
- B. Storing session data locally on each server to avoid complexity.
- C. Disabling session state to simplify load balancing.
- D. Relying on client-side session management exclusively.

Answer: A

41. **How does a distributed cache contribute to scaling an ASP.NET application?**

- A. It allows multiple servers to access a shared cache, reducing load on the database and improving performance.
- B. It increases the memory capacity of individual servers.
- C. It optimizes client-side resource usage.
- D. It simplifies the deployment process.

SET-26

1. What is the primary purpose of HTTPS in web application security?
 - a. To encrypt data transmitted between the client and server, preventing eavesdropping and tampering
 - b. To manage user sessions
 - c. To handle database interactions
 - d. To encrypt SQL queries

Answer: a. To encrypt data transmitted between the client and server, preventing eavesdropping and tampering

2. Which attribute in ASP.NET Core can be used to enforce HTTPS for an application?
 - a. [RequireHttps]
 - b. [Authorize]
 - c. [HttpGet]
 - d. [ValidateAntiForgeryToken]

Answer: a. [RequireHttps]

3. What does the CSP (Content Security Policy) header help protect against?
 - a. Cross-Site Scripting (XSS) attacks
 - b. SQL Injection
 - c. CSRF
 - d. Clickjacking

Answer: a. Cross-Site Scripting (XSS) attacks

4. How can you protect against Cross-Site Scripting (XSS) in ASP.NET?
 - a. By encoding user inputs and outputs
 - b. By encrypting cookies
 - c. By using parameterized queries
 - d. By managing session state

Answer: a. By encoding user inputs and outputs

5. What role does the `ValidateAntiForgeryToken` attribute play in ASP.NET MVC?
 - a. It helps protect against Cross-Site Request Forgery (CSRF) attacks by ensuring requests are from the original site
 - b. It handles SQL Injection
 - c. It manages user sessions
 - d. It encrypts data

Answer: a. It helps protect against Cross-Site Request Forgery (CSRF) attacks by ensuring requests are from the original site

6. Which security feature in ASP.NET Core helps prevent unauthorized access to application resources?
 - a. Authorization policies
 - b. SQL parameterization
 - c. Input validation
 - d. Data encryption

Answer: a. Authorization policies

7. What is the purpose of the `IApplicationBuilder.UseHsts()` method in ASP.NET Core?
- To enable HTTP Strict Transport Security (HSTS) to enforce secure connections
 - To handle user authentication
 - To manage database connections
 - To handle session state

Answer: a. To enable HTTP Strict Transport Security (HSTS) to enforce secure connections

8. How can you prevent session fixation attacks in ASP.NET?
- By regenerating the session ID after authentication
 - By encrypting session data
 - By managing session timeouts
 - By implementing HTTPS

Answer: a. By regenerating the session ID after authentication

9. What is the role of ASP.NET Identity in web application security?
- It provides user authentication and authorization features
 - It manages database connections
 - It encrypts web traffic
 - It handles data serialization

Answer: a. It provides user authentication and authorization features

10. Which ASP.NET Core feature helps protect against brute force attacks on login attempts?
- Rate limiting and account lockout policies
 - Encryption of login credentials
 - Use of HTTPS
 - SQL query parameterization

Answer: a. Rate limiting and account lockout policies

11. How does the `X-Content-Type-Options` header contribute to web application security?
- It prevents browsers from interpreting files as a different MIME type
 - It encrypts web traffic
 - It manages user sessions
 - It handles authentication

Answer: a. It prevents browsers from interpreting files as a different MIME type

12. What is the purpose of implementing logging and monitoring in ASP.NET applications?
- To detect and respond to security incidents and anomalies
 - To manage user authentication
 - To handle database interactions
 - To encrypt data

Answer: a. To detect and respond to security incidents and anomalies

13. Which of the following practices helps secure sensitive data in web applications?
- Encrypting sensitive data both in transit and at rest
 - Using plaintext storage for sensitive data
 - Disabling input validation
 - Ignoring session management

Answer: a. Encrypting sensitive data both in transit and at rest

14. What is the purpose of the `AntiForgeryToken` in ASP.NET MVC forms?
- a. To prevent CSRF attacks by validating that the form submission originates from the authenticated user
 - b. To encrypt the form data
 - c. To manage user sessions
 - d. To handle authentication

Answer: a. To prevent CSRF attacks by validating that the form submission originates from the authenticated user

15. Which ASP.NET Core feature helps protect against Clickjacking attacks?
- a. `X-Frame-Options` header
 - b. Encryption of session cookies
 - c. Rate limiting of requests
 - d. Parameterized queries

Answer: a. `X-Frame-Options` header

16. How does the `IApplicationBuilder.UseAuthorization()` method contribute to web application security?
- a. It enables authorization middleware to enforce access control policies
 - b. It encrypts user data
 - c. It handles session management
 - d. It manages database connections

Answer: a. It enables authorization middleware to enforce access control policies

17. What is the role of `IApplicationBuilder.UseAuthentication()` in ASP.NET Core?
- a. It enables authentication middleware to handle user authentication
 - b. It encrypts web traffic
 - c. It manages session state
 - d. It handles database interactions

Answer: a. It enables authentication middleware to handle user authentication

18. Which of the following is a recommended approach to securely handle passwords in ASP.NET applications?
- a. Using password hashing algorithms with salt
 - b. Storing passwords in plaintext
 - c. Using weak hashing algorithms
 - d. Encrypting passwords but not using salt

Answer: a. Using password hashing algorithms with salt

19. What is a key feature of the `Data Protection API` in ASP.NET Core?
- a. It provides encryption and decryption services for protecting data
 - b. It handles user authentication
 - c. It manages session state
 - d. It performs database transactions

Answer: a. It provides encryption and decryption services for protecting data

20. How can developers use `Policy-Based Authorization` in ASP.NET Core to enhance security?
- a. By defining complex authorization policies based on user roles, claims, and other factors

- b. By using basic authentication
- c. By managing session state
- d. By encrypting database queries

Answer: a. By defining complex authorization policies based on user roles, claims, and other factors

21. What is the purpose of the `IOptionsSnapshot` in ASP.NET Core?

- a. To provide a way to access configuration settings that can be updated at runtime
- b. To manage user sessions
- c. To handle data encryption
- d. To execute SQL queries

Answer: a. To provide a way to access configuration settings that can be updated at runtime

22. Which header helps protect against content-sniffing attacks?

- a. X-Content-Type-Options
- b. X-Frame-Options
- c. Content-Security-Policy
- d. Strict-Transport-Security

Answer: a. X-Content-Type-Options

23. How can the `Content-Security-Policy` header be used to enhance security in ASP.NET applications?

- a. By specifying which resources the browser should allow to be loaded and executed
- b. By managing user authentication
- c. By encrypting web traffic
- d. By handling session state

Answer: a. By specifying which resources the browser should allow to be loaded and executed

24. What is the role of the `AntiForgeryToken` in preventing Cross-Site Request Forgery (CSRF)?

- a. It ensures that requests are coming from an authenticated user by validating tokens
- b. It encrypts web traffic
- c. It manages session state
- d. It handles authentication

Answer: a. It ensures that requests are coming from an authenticated user by validating tokens

25. Which ASP.NET Core feature provides a way to enforce HTTPS on an entire application?

- a. HSTS (HTTP Strict Transport Security)
- b. CSP (Content Security Policy)
- c. XSS (Cross-Site Scripting) protection
- d. CSRF (Cross-Site Request Forgery) protection

Answer: a. HSTS (HTTP Strict Transport Security)

26. What is the purpose of enabling HTTP Strict Transport Security (HSTS) in a web application?

- a. To ensure that the application is only accessible over HTTPS
- b. To encrypt SQL queries
- c. To manage session state
- d. To handle user authentication

Answer: a. To ensure that the application is only accessible over HTTPS

27. How does `Rate Limiting` help secure web applications?

- a. By limiting the number of requests a user can make in a given timeframe, reducing the risk of brute-force attacks
- b. By encrypting user data
- c. By managing session state
- d. By handling authentication

Answer: a. By limiting the number of requests a user can make in a given timeframe, reducing the risk of brute-force attacks

28. Which practice is essential for securing sensitive data in a web application?

- a. Encrypting data both in transit and at rest
- b. Using plaintext storage for sensitive data
- c. Disabling input validation
- d. Ignoring session management

Answer: a. Encrypting data both in transit and at rest

29. What is the purpose of `Session Timeout` settings in ASP.NET applications?

- a. To limit the duration of user sessions to reduce the risk of session hijacking
- b. To encrypt session data
- c. To manage user authentication
- d. To handle SQL queries

Answer: a. To limit the duration of user sessions to reduce the risk of session hijacking

30. Which of the following headers can be used to prevent Clickjacking attacks?

- a. `X-Frame-Options`
- b. `X-Content-Type-Options`
- c. `Strict-Transport-Security`
- d. `Content-Security-Policy`

Answer: a. `X-Frame-Options`

31. What is the role of `Authentication Schemes` in ASP.NET Core?

- a. To define different methods of authenticating users, such as cookies, JWT, or OAuth
- b. To manage session state
- c. To handle data encryption
- d. To execute SQL queries

Answer: a. To define different methods of authenticating users, such as cookies, JWT, or OAuth

32. How can you mitigate the risk of `Cross-Site Request Forgery (CSRF)` attacks?

- a. By using anti-forgery tokens and validating them on the server side
- b. By encrypting web traffic
- c. By managing session state
- d. By handling SQL queries

Answer: a. By using anti-forgery tokens and validating them on the server side

33. What does the `X-Frame-Options` header do in web application security?

- a. It prevents the webpage from being displayed in a frame, iframe, or object to protect

- against clickjacking attacks
- b. It encrypts data
- c. It handles authentication
- d. It manages user sessions

Answer: a. It prevents the webpage from being displayed in a frame, iframe, or object to protect against clickjacking attacks

34. Which method can be used to protect user credentials during authentication?
- a. Hashing passwords with a strong cryptographic algorithm
 - b. Storing passwords in plaintext
 - c. Using weak hashing algorithms
 - d. Encrypting session cookies

Answer: a. Hashing passwords with a strong cryptographic algorithm

35. What is the primary purpose of Input Validation in web applications?
- a. To ensure that user inputs conform to expected formats and are safe for processing, preventing security vulnerabilities
 - b. To handle session state
 - c. To encrypt data
 - d. To manage database connections

Answer: a. To ensure that user inputs conform to expected formats and are safe for processing, preventing security vulnerabilities

36. What does the CORS (Cross-Origin Resource Sharing) policy help with in web application security?
- a. It controls how resources are shared between different domains, preventing unauthorized access
 - b. It encrypts data
 - c. It manages user sessions
 - d. It handles authentication

Answer: a. It controls how resources are shared between different domains, preventing unauthorized access

37. Which practice is essential to protect against Session Hijacking?
- a. Using secure cookies and regenerating session IDs after login
 - b. Encrypting session data
 - c. Disabling session management
 - d. Using plaintext storage

Answer: a. Using secure cookies and regenerating session IDs after login

38. What is a key benefit of Web Application Firewalls (WAF)?
- a. They provide an additional layer of security by filtering and monitoring HTTP requests to detect and block malicious traffic
 - b. They encrypt data
 - c. They manage session state
 - d. They handle user authentication

Answer: a. They provide an additional layer of security by filtering and monitoring HTTP requests to detect and block malicious traffic

39. How does Two-Factor Authentication (2FA) enhance web application security?
- a. By requiring an additional verification step beyond just the password, such as a code sent to a mobile device
 - b. By encrypting SQL queries
 - c. By managing session state
 - d. By handling authentication

Answer: a. By requiring an additional verification step beyond just the password, such as a code sent to a mobile device

40. What is the role of the `IAuthenticationHandler` interface in ASP.NET Core?
- a. It defines the methods for implementing different authentication schemes
 - b. It handles data encryption
 - c. It manages session state
 - d. It executes SQL queries

Answer: a. It defines the methods for implementing different authentication schemes

41. Which security practice helps ensure that sensitive information is not exposed in error messages?
- a. Customizing error pages to avoid disclosing stack traces and internal details
 - b. Encrypting error messages
 - c. Managing session state
 - d. Handling authentication

Answer: a. Customizing error pages to avoid disclosing stack traces and internal details

42. What is the purpose of Security Headers in web application security?
- a. To provide additional layers of security by controlling browser behavior and protecting against various attacks
 - b. To manage session state
 - c. To handle authentication
 - d. To encrypt data

Answer: a. To provide additional layers of security by controlling browser behavior and protecting against various attacks

43. What does SQL Injection protection involve in web applications?
- a. Using parameterized queries and avoiding dynamic SQL
 - b. Encrypting SQL queries
 - c. Managing session state
 - d. Handling authentication

Answer: a. Using parameterized queries and avoiding dynamic SQL

44. Which ASP.NET Core middleware can be used to handle exceptions and provide error responses?
- a. `ExceptionHandler` middleware
 - b. `Authentication` middleware
 - c. `Authorization` middleware
 - d. `Session` middleware

Answer: a. `ExceptionHandler` middleware

45. What is the function of the `UseHttpsRedirection` middleware in ASP.NET Core?
- a. To redirect HTTP requests to HTTPS, enforcing secure connections
 - b. To handle user authentication
 - c. To manage session state
 - d. To encrypt SQL queries

Answer: a. To redirect HTTP requests to HTTPS, enforcing secure connections

46. How can developers ensure secure communication in a distributed web application?
- a. By using TLS/SSL to encrypt data transmitted between services
 - b. By using plaintext communication
 - c. By managing session state
 - d. By handling authentication

Answer: a. By using TLS/SSL to encrypt data transmitted between services

47. What is a common method for protecting against Cross-Site Request Forgery (CSRF) in modern web applications?
- a. Implementing anti-forgery tokens in forms and AJAX requests
 - b. Encrypting form data
 - c. Managing session state
 - d. Handling authentication

Answer: a. Implementing anti-forgery tokens in forms and AJAX requests

48. Which practice helps in mitigating the risk of Clickjacking attacks?
- a. Using the `X-Frame-Options` header to prevent the page from being framed
 - b. Encrypting web traffic
 - c. Handling session management
 - d. Managing user authentication

Answer: a. Using the `X-Frame-Options` header to prevent the page from being framed

49. What is the purpose of Audit Logging in web applications?
- a. To keep track of security-relevant events and actions for monitoring and forensic purposes
 - b. To manage session state
 - c. To encrypt data
 - d. To handle authentication

Answer: a. To keep track of security-relevant events and actions for monitoring and forensic purposes

SET-27

1. **What is the primary advantage of real-time web applications?**

- A. They provide instantaneous updates and interactions without the need for page reloads.
- B. They offer better performance for static content delivery.
- C. They simplify server-side processing.
- D. They reduce the need for client-side scripting.

Answer: A

2. **Which technology is commonly used for real-time communication in ASP.NET applications?**

- A. SignalR
- B. WebSockets
- C. AJAX
- D. Server-Sent Events

Answer: A

3. **What is a common use case for real-time web applications?**

- A. Chat applications and live notifications
- B. Static web page hosting
- C. Server-side data processing
- D. Traditional form submission

Answer: A

4. **In real-time web applications, what does the term “push” refer to?**

- A. The server sending updates to clients without them requesting the information.
- B. Clients requesting updates from the server.
- C. Storing data in the browser's local storage.
- D. Sending large files from client to server.

Answer: A

5. **Which of the following protocols is essential for real-time web applications?**

- A. WebSocket
- B. HTTP
- C. FTP
- D. SMTP

Answer: A

6. **What does the `Hub` class in SignalR represent?**

- A. A server-side component for managing real-time communication between clients and the server.
- B. A client-side component for managing HTTP requests.
- C. A configuration class for SignalR.
- D. A database access class.

Answer: A

7. **Which SignalR method allows clients to send messages to the server?**

- A. `SendAsync()`
- B. `ReceiveAsync()`
- C. `Broadcast()`
- D. `PushMessage()`

Answer: A

8. **What is a “HubConnection” in SignalR?**

- A. An object that manages the connection between the client and the SignalR Hub.

- B. A server-side method for handling incoming messages.
- C. A configuration setting for SignalR.
- D. A class for managing client-side data.

Answer: A

9. How do real-time web applications benefit from WebSockets?

- A. WebSockets provide a full-duplex communication channel that allows continuous data exchange between client and server.
- B. WebSockets enhance the security of data transmission.
- C. WebSockets simplify HTTP request handling.
- D. WebSockets are used for file storage on the server.

Answer: A

10. What is the purpose of OnConnectedAsync in a SignalR Hub?

- A. It handles logic when a client successfully connects to the Hub.
- B. It manages reconnection attempts.
- C. It processes messages from clients.
- D. It initializes the Hub's configuration.

Answer: A

11. Which SignalR feature allows a server to broadcast messages to all connected clients?

- A. `Clients.All.SendAsync()`
- B. `BroadcastToAll()`
- C. `SendToClients()`
- D. `PushToAll()`

Answer: A

12. In a real-time web application, what does the term “subscribing” generally refer to?

- A. Clients registering to receive specific types of updates or messages from the server.
- B. Clients sending data to the server.
- C. Server-side data processing.
- D. Handling HTTP requests.

Answer: A

13. How can you ensure message delivery reliability in a real-time web application using SignalR?

- A. By using the `SendAsync()` method and implementing retry logic as needed.
- B. By configuring SSL/TLS for secure communication.
- C. By using custom transport protocols.
- D. By optimizing server-side processing.

Answer: A

14. What does `IHubContext<T>` allow you to do in an ASP.NET Core SignalR application?

- A. Send messages to clients from outside of a Hub class.
- B. Configure Hub services.
- C. Manage server-side connections.
- D. Handle client-side scripts.

Answer: A

15. Which method is used to configure real-time services in the Startup class of an ASP.NET Core application?

- A. `AddSignalR()`
- B. `ConfigureSignalR()`
- C. `UseSignalR()`

D. `SignalRConfig()`

Answer: A

16. How does SignalR handle client reconnections?

- A. By using automatic reconnection policies and handling disconnection events.
- B. By manually reconnecting clients through JavaScript.
- C. By restarting the server on client disconnection.
- D. By using HTTP long polling.

Answer: A

17. What is the role of the `ScriptManager` in an AJAX-enabled ASP.NET page?

- A. To manage client-side scripts and enable partial page updates.
- B. To handle server-side authentication.
- C. To configure database connections.
- D. To manage static content delivery.

Answer: A

18. How can you implement real-time notifications in an ASP.NET Core application?

- A. By using SignalR to push updates to clients in real-time.
- B. By sending periodic HTTP requests to check for updates.
- C. By using email notifications.
- D. By using server-side rendering only.

Answer: A

19. What is a “message bus” in the context of real-time web applications?

- A. A system for distributing messages to different parts of an application or to various clients.
- B. A database for storing messages.
- C. A protocol for client-server communication.
- D. A web service for managing user sessions.

Answer: A

20. Which of the following is a benefit of using SignalR over traditional HTTP polling?

- A. SignalR provides lower latency and real-time communication without the need for frequent requests.
- B. SignalR reduces server-side processing time.
- C. SignalR simplifies static content delivery.
- D. SignalR eliminates the need for client-side scripting.

Answer: A

21. How does SignalR support scaling out in a distributed environment?

- A. By using a backplane to synchronize messages across multiple servers.
- B. By deploying multiple instances of the SignalR service.
- C. By using a single server to handle all connections.
- D. By configuring client-side connection management.

Answer: A

22. What is a “group” in SignalR and how is it used?

- A. A collection of clients that can receive messages sent to that group.
- B. A method for managing client-side data.
- C. A configuration setting for SignalR.
- D. A database table for storing messages.

Answer: A

23. How can you use SignalR to implement a real-time chat application?

- A. By creating a Hub with methods to send and receive messages between clients.

- B. By using static file servers for chat data.
- C. By implementing form submission for chat messages.
- D. By using traditional HTTP requests for communication.

Answer: A

24. **What does the `Groups.AddToGroupAsync()` method do in SignalR?**

- A. Adds a connection to a specified group.
- B. Removes a connection from a group.
- C. Sends a message to all members of a group.
- D. Creates a new group for connections.

Answer: A

25. **Which method in SignalR is used to handle messages from clients on the server side?**

- A. `On()`
- B. `Receive()`
- C. `Send()`
- D. `Invoke()`

Answer: D

26. **What is a “hub pipeline” in SignalR?**

- A. A series of components that process Hub invocations and messages.
- B. A method for managing client connections.
- C. A protocol for real-time communication.
- D. A configuration setting for SignalR.

Answer: A

27. **Which of the following can be a real-time web application feature enabled by SignalR?**

- A. Live data updates and notifications
- B. Static content caching
- C. Traditional form validation
- D. Server-side data storage

Answer: A

28. **What does the `IHubCallerContext` provide in SignalR?**

- A. Context information about the caller, such as connection ID and user identity.
- B. Configuration settings for the Hub.
- C. Data for managing client-side scripts.
- D. Methods for handling server-side requests.

Answer: A

29. **How does SignalR ensure that messages are delivered to specific clients?**

- A. By using connection IDs and groups to target messages.
- B. By using database queries.
- C. By relying on server-side sessions.
- D. By using HTTP headers for identification.

Answer: A

30. **What is the `HubConnectionBuilder` used for in SignalR?**

- A. To create and configure a `HubConnection` instance.
- B. To manage multiple Hub connections.
- C. To configure server-side Hub methods.
- D. To handle client-side script integration.

Answer: A

31. **Which method is used to configure a real-time update interval in SignalR?**

- A. SignalR does not have a built-in method for update intervals; updates occur in real-time.
- B. SetUpdateInterval()
- C. ConfigureUpdateRate()
- D. SetRealTimeInterval()

Answer: A

32. **What is the `IHubLifetimeManager` interface used for in SignalR?**

- A. To manage the lifetime and scaling of Hubs.
- B. To configure client-side connections.
- C. To handle message serialization.
- D. To manage server-side data storage.

Answer: A

33. **Which of the following is NOT a feature of SignalR?**

- A. Support for real-time communication
- B. Built-in database management
- C. Connection management
- D. Group messaging

Answer: B

34. **How do you handle client disconnections in SignalR?**

- A. By using the `OnDisconnectedAsync` method in the Hub.
- B. By implementing custom client-side reconnection logic.
- C. By configuring server-side timeout settings.
- D. By handling HTTP status codes.

Answer: A

35. **What is the `HubConnection` class used for in SignalR?**

- A. To manage and interact with a SignalR Hub from the client-side.
- B. To configure server-side Hub methods.
- C. To handle server-side data processing.
- D. To manage database connections.

Answer: A

36. **How can you integrate SignalR with a front-end framework like Angular or React?**

- A. By using the SignalR JavaScript client library to interact with SignalR Hubs.
- B. By using custom HTTP requests for communication.
- C. By embedding SignalR components directly in the front-end framework.
- D. By configuring server-side APIs for integration.

Answer: A

37. **What is the purpose of the `IConnectionBuilder` interface in SignalR?**

- A. To configure and build connections to SignalR Hubs.
- B. To manage client-side data.
- C. To handle server-side message processing.
- D. To manage authentication.

Answer: A

38. **How does SignalR handle authentication and authorization?**

- A. By integrating with ASP.NET Core Identity and using authorization policies.
- B. By managing user credentials directly in the Hub.
- C. By using custom authentication schemes only.

D. By configuring client-side authentication mechanisms.

Answer: A

39. **What is the role of `IHubProtocol` in SignalR?**

- A. To handle the serialization and deserialization of messages between the client and server.
- B. To manage Hub lifecycle events.
- C. To configure client-side settings.
- D. To handle connection management.

Answer: A

40. **Which method is used to broadcast messages to a specific group of clients in SignalR?**

- A. `Clients.Group().SendAsync()`
- B. `SendToGroup()`
- C. `BroadcastMessage()`
- D. `PushToGroup()`

Answer: A

41. **What does the `on()` method do in a SignalR Hub?**

- A. It registers a method that handles messages sent from clients to the Hub.
- B. It configures Hub settings.
- C. It manages client connections.
- D. It handles server-side events.

Answer: A

42. **How can you scale SignalR applications across multiple servers?**

- A. By using a backplane such as Redis or Azure SignalR Service to synchronize messages.
- B. By deploying additional instances of the SignalR service.
- C. By using load balancers only.
- D. By modifying client-side connection logic.

Answer: A

43. **What is the `HubLifetimeManager` responsible for in SignalR?**

- A. Managing the lifecycle of Hub instances and scaling across servers.
- B. Configuring Hub methods.
- C. Handling client-side scripts.
- D. Managing database connections.

Answer: A

SET-28

1. **What is the primary purpose of output caching in ASP.NET?**

- A. To improve performance by storing the rendered output of web pages and reusing it for subsequent requests.
- B. To manage user sessions. What is the purpose of Audit Logging in web applications?
- C. To handle authentication and authorization.
- D. To optimize database queries.

Answer: A

2. **Which directive is used to enable output caching in an ASP.NET web page?**

- A. <%@ OutputCache %>
- B. <%@ Cache %>
- C. <%@ Page %>
- D. <%@ CacheSettings %>

Answer: A

3. **What does the Duration parameter specify in the output caching directive?**

- A. The number of seconds that the cached output should be stored before it is considered stale.
- B. The size of the cache in megabytes.
- C. The frequency of cache refresh.
- D. The number of requests to cache.

Answer: A

4. **How does the VaryByParam attribute affect output caching?**

- A. It determines how the cache varies based on the query string or form parameters.
- B. It specifies the expiration time of the cache.
- C. It controls the size of the cache.
- D. It defines the location of the cache.

Answer: A

5. **What is the effect of setting the VaryByHeader attribute in output caching?**

- A. It makes the cache vary based on HTTP headers sent by the client.
- B. It controls the expiration time of the cache.
- C. It manages cache location.
- D. It specifies the duration of cache storage.

Answer: A

6. **Which of the following is a valid value for the VaryByParam attribute?**

- A. None, All, or a specific parameter name.
- B. True Or False.
- C. Cache, NoCache.
- D. Public, Private.

Answer: A

7. **What is the default value of the VaryByParam attribute if not specified?**

- A. None
- B. All
- C. Default
- D. True

Answer: A

8. **How can you implement output caching for a specific section of a web page rather than the entire page?**

- A. By using the OutputCache directive within an UpdatePanel control or by applying caching programmatically in code.
- B. By using the Cache object.
- C. By configuring settings in the web.config file.
- D. By using the Session object.

Answer: A

9. **What is the impact of setting the `Location` attribute in the output caching directive?**
- A. It determines where the cache is stored, such as on the server or client-side.
 - B. It controls the duration of the cache.
 - C. It specifies the type of cache (e.g., memory or disk).
 - D. It determines the number of cached items.

Answer: A

10. **Which caching mechanism stores data in memory and is suitable for high-performance scenarios?**
- A. In-memory caching
 - B. Disk-based caching
 - C. Database caching
 - D. Cloud-based caching

Answer: A

11. **How does output caching affect the scalability of an ASP.NET application?**
- A. It improves scalability by reducing the load on the server and database through cached responses.
 - B. It requires additional server resources.
 - C. It complicates application deployment.
 - D. It eliminates the need for load balancing.

Answer: A

12. **In which scenarios should output caching be avoided?**
- A. When the content is highly dynamic and changes frequently.
 - B. When the content is static and rarely changes.
 - C. For pages with complex data that benefits from caching.
 - D. For frequently accessed pages that are CPU-intensive.

Answer: A

13. **How can you control the output cache programmatically in ASP.NET?**
- A. By using the `HttpRuntime.Cache` object or `HttpCachePolicy` class.
 - B. By configuring settings in `web.config`.
 - C. By applying caching directives in the page markup.
 - D. By using the `Session` object.

Answer: A

14. **Which attribute of the `OutputCache` directive controls whether the cached content should be stored on the client-side or server-side?**
- A. `Location`
 - B. `Duration`
 - C. `VaryByParam`
 - D. `VaryByHeader`

Answer: A

15. **How can output caching improve the performance of web applications with complex data queries?**
- A. By storing the results of expensive data queries in cache, reducing the need for repeated database access.
 - B. By simplifying the database schema.
 - C. By increasing the number of concurrent database connections.
 - D. By reducing the number of database queries.

Answer: A

16. **What does the `VaryByCustom` attribute allow you to specify in the `OutputCache` directive?**
- A. Custom variations of cached content based on user-defined criteria or custom logic.
 - B. The default caching location.
 - C. The size of the cache.
 - D. The expiration policy of cached items.

Answer: A

17. **How can you use output caching to cache the result of an HTTP request for a specific URL?**

- A. By configuring caching rules in the `web.config` file or using the `OutputCache` directive with URL parameters.
- B. By setting caching policies in IIS.
- C. By using server-side caching frameworks only.
- D. By caching database query results directly.

Answer: A

18. **What is the role of `HttpCachePolicy` class in managing output caching?**

- A. It provides methods and properties to control and manipulate caching policies programmatically.
- B. It stores cached items in memory.
- C. It manages the session state.
- D. It handles authentication and authorization.

Answer: A

19. **What effect does the `NoStore` parameter have in output caching?**

- A. It prevents the page or data from being cached by the server or client.
- B. It increases the duration of cached items.
- C. It ensures that the cache is stored on the server.
- D. It allows the cache to be shared among multiple users.

Answer: A

20. **How does output caching interact with AJAX requests in ASP.NET?**

- A. AJAX requests can also be cached, but caching behavior might need to be managed differently based on request headers.
- B. AJAX requests bypass the output caching mechanism.
- C. AJAX requests automatically use in-memory caching.
- D. AJAX requests do not affect the caching of web pages.

Answer: A

21. **Which HTTP caching directive can be used to prevent caching of dynamic content in the browser?**

- A. `Cache-Control: no-cache`
- B. `Expires`
- C. `Pragma: no-cache`
- D. `Cache-Control: max-age`

Answer: A

22. **What is the significance of the `VaryByCustom` attribute in the context of custom caching logic?**

- A. It allows the cache to vary based on custom logic defined in the `VaryByCustom` method of the `CachePolicy` class.
- B. It sets the cache expiration time.
- C. It determines the size of the cache.
- D. It defines the caching location.

Answer: A

23. **Which attribute specifies how the cache varies based on the user's language or culture?**

- A. `VaryByCustom`
- B. `VaryByParam`
- C. `VaryByHeader`
- D. `Location`

Answer: A

24. **How can you clear cached data programmatically in ASP.NET?**

- A. By using methods provided by the `Cache` or `MemoryCache` class to remove specific cached items.
- B. By restarting the application pool.
- C. By configuring cache expiration settings.
- D. By deleting cached files from the disk.

Answer: A

25. **What is the purpose of the `OutputCache` attribute in ASP.NET MVC?**

- A. To cache the output of an action method to improve performance and reduce server load.
- B. To manage user sessions.
- C. To handle routing and URL management.
- D. To manage authentication and authorization.

Answer: A

26. **How does output caching impact the delivery of content to users?**

- A. It reduces the time to deliver content by serving cached responses instead of generating them anew.
- B. It increases the time to deliver content due to additional processing.
- C. It changes the content delivered to users.
- D. It requires users to log in again.

Answer: A

27. **What should be considered when caching user-specific data?**

- A. Ensure that the cache key is unique to each user to avoid serving incorrect data.
- B. Cache all data without differentiation.
- C. Use a single cache key for all users.
- D. Avoid caching user-specific data.

Answer: A

28. **What is the result of setting the `SlidingExpiration` property in output caching?**

- A. The cache entry is refreshed based on the time of last access, extending its lifetime.
- B. The cache entry is removed immediately after a request.
- C. The cache entry expires at a fixed time interval.
- D. The cache entry is not affected by expiration settings.

Answer: A

29. **How does output caching handle requests that are not in the cache?**

- A. It generates a fresh response and stores it in the cache for future requests.
- B. It returns an error to the client.
- C. It redirects to a different URL.
- D. It ignores the request.

Answer: A

30. **Which attribute allows you to cache data based on the HTTP method (GET, POST)?**

- A. `VaryByHeader`
- B. `VaryByParam`
- C. `VaryByCustom`
- D. `Duration`

Answer: A

31. **What does setting `CacheLocation` to `Server` in the `OutputCache` directive imply?**

- A. The cache is stored on the server side rather than the client side.
- B. The cache is stored on the client side.
- C. The cache is shared among multiple servers.
- D. The cache is stored in the cloud.

Answer: A

32. **What is a common use case for output caching in an ASP.NET application?**

- A. Caching the results of frequently accessed but rarely changed data to reduce load on the database.
- B. Caching user login credentials.
- C. Caching real-time data from external APIs.
- D. Caching dynamic content that changes frequently.

Answer: A

33. **How does output caching affect the freshness of content?**

- A. Cached content may become stale and may not reflect the most recent changes unless explicitly refreshed.
- B. Cached content is always up-to-date.

- C. Output caching ensures content freshness by default.
- D. Output caching disables content updates.

Answer: A

34. What is the role of the `VaryByCustom` method in custom caching scenarios?

- A. It allows defining custom logic to determine how the cache varies based on specific criteria.
- B. It sets the default cache expiration.
- C. It specifies the size of the cache.
- D. It controls the caching location.

Answer: A

35. Which caching strategy should be used for highly dynamic pages that cannot be cached effectively?

- A. Dynamic caching techniques such as cache dependencies or partial caching.
- B. Full-page output caching.
- C. Disk-based caching.
- D. In-memory caching.

Answer: A

36. What is the effect of using `OutputCache` in an MVC action method?

- A. It caches the HTML output of the action method to improve performance and reduce server processing time.
- B. It stores user session data.
- C. It manages authentication and authorization for the action method.
- D. It changes the action method's routing behavior.

Answer: A

37. How can you cache partial content of a page in ASP.NET Web Forms?

- A. By using the `OutputCache` directive on user controls or specific regions of the page.
- B. By caching the entire page only.
- C. By using server-side session state.
- D. By applying caching in the `web.config` file.

Answer: A

38. What does the `VaryByCustom` attribute allow you to do in output caching?

- A. Create custom cache variations based on logic implemented in a custom method.
- B. Control the duration of cache storage.
- C. Define the size of the cache.
- D. Specify the caching location.

Answer: A

39. How can you ensure that output caching does not cause stale content to be served?

- A. By setting appropriate expiration policies and using cache dependencies.
- B. By avoiding the use of output caching.
- C. By frequently clearing the cache manually.
- D. By using only in-memory caching.

Answer: A

40. Which attribute in the `OutputCache` directive is used to specify the cache duration?

- A. `Duration`
- B. `VaryByParam`
- C. `Location`
- D. `VaryByHeader`

Answer: A

41. How does output caching impact server load and performance?

- A. It reduces server load and improves performance by serving cached responses instead of processing requests repeatedly.
- B. It increases server load due to additional caching overhead.
- C. It has no impact on server performance.
- D. It requires additional hardware resources.

Answer: A

42. **What does the `VaryByHeader` attribute allow you to specify in the `OutputCache` directive?**

- A. It allows the cache to vary based on specific HTTP headers.
- B. It sets the cache expiration time.
- C. It determines the cache location.
- D. It controls the cache size.

Answer: A

SET-29

1. Which file extension is associated with ASP.NET Web Forms?
A) .asp
B) .aspx
C) .php
D) .html

Answer: B) .aspx

2. What is the code-behind file in ASP.NET Web Forms used for?
A) Writing server-side logic
B) Writing client-side scripts
C) Styling the web page
D) Defining the database schema

Answer: A) Writing server-side logic

3. Which directive is used to bind a Web Form to its code-behind file?
A) @Page
B) @Form
C) @CodeBehind
D) @Include

Answer: A) @Page

4. How can you maintain state between postbacks in Web Forms?
A) ViewState
B) Session
C) Cookies
D) All of the above

Answer: D) All of the above

5. What is the default event for an ASP.NET Button control?
A) TextChanged
B) Click
C) SelectedIndexChanged
D) Command

Answer: B) Click

6. In ASP.NET Web Forms, what is a Postback?
A) When a form is submitted to the server
B) When the server sends a response to the client
C) When JavaScript is executed
D) When a session starts

Answer: A) When a form is submitted to the server

7. What is ViewState in ASP.NET Web Forms?
A) Client-side state management
B) Server-side state management
C) Session management
D) Database management

Answer: A) Client-side state management

8. Which method is used to redirect the user to another page in Web Forms?
A) Server.Transfer
B) Response.Redirect
C) Server.Redirect

D) Page.Transfer

Answer: B) Response.Redirect

9. What is the default method of transferring data between ASP.NET Web Forms?

A) QueryString

B) ViewState

C) Session

D) Cookies

Answer: B) ViewState

10. Which of the following is a server-side control in ASP.NET Web Forms?

A) Button

B) TextBox

C) DropDownList

D) All of the above

Answer: D) All of the above

11. Which control is used to create a tabular structure to display data in ASP.NET Web Forms?

A) Repeater

B) GridView

C) ListView

D) DetailsView

Answer: B) GridView

12. What is the primary purpose of the Web.config file in ASP.NET Web Forms?

A) Defining the page layout

B) Configuring application settings

C) Managing session state

D) Controlling the design of web pages

Answer: B) Configuring application settings

13. Which of the following state management techniques stores data on the client-side in ASP.NET Web Forms?

A) Session

B) ViewState

C) Application

D) Cache

Answer: B) ViewState

14. Which event occurs first in the ASP.NET Web Forms page lifecycle?

A) Page_Load

B) Page_Init

C) Page_PreRender

D) Page_Unload

Answer: B) Page_Init

15. What is ASP.NET Web Forms primarily used for?

A) Creating console applications

B) Developing desktop applications

C) Building dynamic web applications

D) Designing mobile applications

Answer: C) Building dynamic web applications

16. How can you store small amounts of data on the client-side in an ASP.NET Web Form?

- A) Session
- B) ViewState
- C) Cache
- D) Cookies

Answer: B) ViewState

17. What does the "runat" attribute signify in ASP.NET Web Forms?

- A) That the control should be run on the server
- B) That the control should be run on the client-side
- C) That the control is a static element
- D) None of the above

Answer: A) That the control should be run on the server

18. In ASP.NET Web Forms, what does the `IsPostBack` property check?

- A) Whether the page is being accessed for the first time
- B) Whether a control is disabled
- C) Whether the page is being loaded for the second or subsequent time
- D) Whether ViewState is enabled

Answer: C) Whether the page is being loaded for the second or subsequent time

19. Which control in ASP.NET Web Forms is used to display a list of items from a data source?

- A) ListBox
- B) DropDownList
- C) Repeater
- D) All of the above

Answer: D) All of the above

20. Which of the following is not a type of validator control in ASP.NET Web Forms?

- A) RangeValidator
- B) RegularExpressionValidator
- C) PatternValidator
- D) RequiredFieldValidator

Answer: C) PatternValidator

21. What does the GridView control provide in ASP.NET Web Forms?

- A) Tabular display of data
- B) Paging and sorting features
- C) Editing and deleting capabilities
- D) All of the above

Answer: D) All of the above

22. How do you disable ViewState for a control in ASP.NET Web Forms?

- A) Set `EnableViewState=false`
- B) Set `ViewStateMode=Disabled`
- C) Both A and B
- D) None of the above

Answer: C) Both A and B

23. Which event fires after all controls have been initialized in ASP.NET Web Forms?

- A) `Page_Load`
- B) `Page_PreRender`

C) Page_Init
D) Page_Unload
Answer: A) Page_Load

24. Which session state mode stores session data in a state server?

- A) InProc
- B) StateServer
- C) SQLServer
- D) Custom

Answer: B) StateServer

25. How can a Web Form be prevented from submitting multiple times?

- A) Use the IsPostBack property
- B) Disable the submit button after first submission
- C) Use JavaScript to block multiple clicks
- D) All of the above

Answer: D) All of the above

26. What does the Application object represent in ASP.NET Web Forms?

- A) State information shared across all users
- B) Session data for a single user
- C) Server-side cache
- D) Client-side data

Answer: A) State information shared across all users

27. How can you create a reusable component in ASP.NET Web Forms?

- A) Create a Web User Control
- B) Create a class file
- C) Use a master page
- D) Both A and B

Answer: D) Both A and B

28. What does Session.Abandon() do in ASP.NET Web Forms?

- A) Resets the ViewState
- B) Ends the user session and clears all session data
- C) Logs the user out
- D) Clears the server cache

Answer: B) Ends the user session and clears all session data

29. Which method is used to force a page to reload in ASP.NET Web Forms?

- A) Page.Refresh()
- B) Response.Redirect()
- C) Server.Transfer()
- D) None of the above

Answer: B) Response.Redirect()

30. How do you bind data to a DropDownList in ASP.NET Web Forms?

- A) Use the DataBind() method
- B) Set the DataSource property
- C) Both A and B
- D) None of the above

Answer: C) Both A and B

31. What is the purpose of the `Runat="server"` attribute in ASP.NET Web Forms?

- A) To indicate that the control is processed on the server
- B) To indicate that the control is client-side
- C) To indicate the form has JavaScript code
- D) To link the form to a CSS file

Answer: A) To indicate that the control is processed on the server

32. What is the purpose of the `MasterPage` in ASP.NET Web Forms?

- A) To define a consistent layout for pages
- B) To include JavaScript functions
- C) To manage session data
- D) To handle postbacks

Answer: A) To define a consistent layout for pages

33. Which method is used to retrieve the values stored in `ViewState`?

- A) `ViewState.GetValue()`
- B) `ViewState.Get()`
- C) `ViewState()`
- D) `ViewState["key"]`

Answer: D) `ViewState["key"]`

34. What is the role of the `Server.Transfer` method in ASP.NET Web Forms?

- A) To transfer the request to another page on the server without changing the URL
- B) To redirect the user to another server
- C) To reload the current page
- D) To transfer the control to another server

Answer: A) To transfer the request to another page on the server without changing the URL

35. How can you optimize the performance of an ASP.NET Web Forms application?

- A) Use `ViewState` where necessary
- B) Cache frequently accessed data
- C) Minimize server controls and postbacks
- D) All of the above

Answer: D) All of the above

36. In which event can you dynamically change the contents of a `GridView` before it is rendered?

- A) `Page_Load`
- B) `RowDataBound`
- C) `PreRender`
- D) `Page_Init`

Answer: B) `RowDataBound`

37. Which control would you use to allow a user to upload a file in ASP.NET Web Forms?

- A) `FileUpload`
- B) `FileInput`
- C) `UploadControl`
- D) `FileSelect`

Answer: A) `FileUpload`

38. Which caching type stores page responses to improve performance in ASP.NET Web Forms?

- A) Application Caching
- B) Output Caching
- C) Data Caching

D) Session Caching
Answer: B) Output Caching

39. How can you enforce a required field on a form in ASP.NET Web Forms?

- A) Use the RequiredFieldValidator control
- B) Set the field to "Required" in HTML
- C) Validate the form on the server
- D) Use the ValidateField control

Answer: A) Use the RequiredFieldValidator control

40. Which control allows you to paginate large data in a GridView?

- A) PageSizeControl
- B) DataPager
- C) Paginator
- D) Paging

Answer: B) DataPager

41. What is the purpose of the ValidationSummary control in ASP.NET Web Forms?

- A) Display a list of validation errors on the page
- B) Summarize the form data
- C) Highlight incorrect fields
- D) Perform server-side validation

Answer: A) Display a list of validation errors on the page

42. What does the AutoPostBack property do in an ASP.NET Web Forms control?

- A) Automatically submits the form when a value changes
- B) Disables postback functionality
- C) Forces a control to be posted to the client
- D) None of the above

Answer: A) Automatically submits the form when a value changes

43. Which of the following controls allow inline editing in ASP.NET Web Forms?

- A) Repeater
- B) GridView
- C) ListView
- D) DetailsView

Answer: B) GridView

44. How can you manage session data in ASP.NET Web Forms?

- A) Store it in the Session object
- B) Store it in Cookies
- C) Store it in ViewState
- D) All of the above

Answer: A) Store it in the Session object

45. What is the Page.IsValid property used for in ASP.NET Web Forms?

- A) Checks whether all validation controls on the page are valid
- B) Validates the session
- C) Verifies the server connection
- D) None of the above

Answer: A) Checks whether all validation controls on the page are valid

46. How can you bind a database to a GridView in ASP.NET Web Forms?

- A) Using SqlDataSource
- B) Using ObjectDataSource
- C) Using LinqDataSource
- D) All of the above

Answer: D) All of the above

47. Which of the following is a valid method to start an ASP.NET session?

- A) Session_Start()
- B) Application_Start()
- C) Session.Create()
- D) None of the above

Answer: A) Session_Start()

48. Which control is used to create hyperlinks in ASP.NET Web Forms?

- A) HyperLink
- B) LinkControl
- C) UrlLink
- D) LinkButton

Answer: A) HyperLink

49. What is the role of the IIS in ASP.NET Web Forms applications?

- A) Web server that processes requests and serves responses
- B) Database management
- C) Client-side rendering
- D) None of the above

Answer: A) Web server that processes requests and serves responses

50. How do you display detailed information about a specific item in ASP.NET Web Forms?

- A) Use DetailsView
- B) Use GridView
- C) Use Repeater
- D) Use ListView

Thank You So Much <https://t4tutorials.com/>