MCQ

1. What is the main characteristic of a static website?

   A) Uses server-side scripting

   B) Includes website scripting

   C) Utilizes HTML and CSS only

   D) Allows for dynamic user interaction

2. Which of the following is an example of a Uniform Resource Name (URN)?

   A) http://www.example.com

   B) urn:isbn:0451450523

   C) ftp://ftp.example.com

   D) mailto:info@example.com

3. What is the purpose of the Domain Name System (DNS)?

   A) To identify a thing on the web

   B) To resolve domain names to IP addresses

   C) To provide information about MIME types

   D) To transmit HTTP headers

4. Which HTTP request type typically retrieves information from a server?

   A) POST

   B) GET

   C) PUT

   D) DELETE

5. What is the main advantage of server-side scripting over client-side scripting?

   A) More flexibility in programmatic capabilities

   B) Access to local hardware and file system

   C) Independence from browser support

   D) Higher level of security

6. Which web server software is open-source and runs on Unix, Linux, Mac, and Windows?

   A) Apache

   B) IIS

   C) Tomcat

   D) Nginx

7. What is the current version of Visual Studio for ASP.NET development?

   A) Visual Studio 2010

   B) Visual Studio 2012

   C) Visual Studio 2018

   D) Visual Studio 2022

8. Which state management technique in ASP.NET is used to store small amounts of data on the client?

   A) Cookies

   B) Hidden fields

   C) View state

   D) Query strings

9. How does ASP.NET handle session state if cookies are disabled?

   A) Generates an error

   B) Stores session data on the server only

   C) Uses URL rewriting

   D) Falls back to using hidden fields

10. What does the @Page directive do in ASP.NET?

    A) Defines the language used in the code-behind file

    B) Sets the master page for the current page

    C) Specifies the page as a Web form

    D) Enables session management for the page

11. Which of the following is an example of a pure client-side state management technique?

    A) Cookies

    B) Session state

    C) Hidden fields

    D) View state

12. What is the purpose of the Global.asax file in ASP.NET?

    A) To define the layout of the master page

    B) To handle application startup, shutdown, and errors

    C) To contain procedures for form validation

    D) To specify the page's MIME type

13. Which HTTP method is typically used to send form data to a server?

    A) PUT

    B) POST

C) GET

D) DELETE

14. In ASP.NET, what event is commonly used to populate controls on a page with data?

A) Page_Load

B) Page_Init

C) Page_Unload

D) Page_PreRender

15. What is the purpose of the CodeBehind attribute in ASP.NET?

A) Specifies the programming language used in the code-behind file

B) Links the .aspx file to its corresponding .aspx.cs file

C) Determines the order of execution of event handlers

D) Enables server-side validation for form controls

16. Which folder in an ASP.NET project is designed to store shared code files?

A) App_Data

B) App_Code

C) Scripts

D) Bin

17. What is the purpose of the ViewState property in ASP.NET?

A) To store data temporarily after a postback

B) To identify the user's session

C) To maintain the theme of the master page

D) To manage server-side events

18. Which method is commonly used to read cookies in PHP?

A) $_POST

B) $_GET

C) $_SESSION

D) $_COOKIE

19. How can you set the start page in an ASP.NET application?

A) Through the Global.asax file

B) By setting the DefaultPage property in web.config

C) By right-clicking the page in the Solution Explorer and selecting "Set as Start Page"

D) By modifying the <startPage> element in the project file

20. What does the Page_Load event handler in ASP.NET typically handle?

A) Application startup tasks

B) Page initialization tasks

C) Rendering of server controls

D) Handling of form submissions

21. What are the types of data sources discussed in the lecture?

a) Flat file and RDBMS

b) RDBMS and NoSQL

c) Non-relational and cloud

d) Flat file and Key-Value stores

22. In PHP, what function is used to set up a connection to MySQL?

a) mysql_connect()

b) connect_mysql()

c) establish_connection()

d) open_mysql_connection()

23. Which ASP.NET control is designed to link into Microsoft SQL Server?

a) SqlDataSource

b) ObjectDataSource

c) XmlDataSource

d) DataSet

24. Where is the connection string typically placed in an ASP.Net application?

a) In the code-behind file

b) In a separate configuration file

c) Within the HTML markup

d) In a JavaScript file

25. What is the purpose of the DataBind() method in ASP.NET?

a) To establish a connection to the database

b) To retrieve data from the database

c) To evaluate data binding expressions at runtime

d) To execute SQL queries

26. Which ASP.NET control adds a layer of abstraction to simplify data binding?

a) SqlDataSource

b) ObjectDataSource

c) XmlDataSource

d) DataSet

27. How can a list control be bound to a data source in ASP.NET?

   a) By using the DataSource property

   b) By using the DataMember property

   c) By calling the BindData() method

   d) By setting the AutoBind property to true

28. What is the purpose of the DataValueField property in ASP.NET list controls?

   a) To set the data source field used as a key

   b) To set the data source field displayed to the user

   c) To store the primary key of the data source

   d) To specify the connection string to the database

29. How is client-side validation typically performed in ASP.NET?

   a) Using JavaScript

   b) Using VBScript

   c) Using C#

   d) Using HTML

30. What ASP.NET validation control is used to ensure a control has a value?

   a) RequiredFieldValidator

   b) RangeValidator

   c) CompareValidator

   d) CustomValidator

31. Which ASP.NET validation control checks if two control values are the same?

   a) RequiredFieldValidator

   b) RangeValidator

c) CompareValidator

d) CustomValidator

32. What property is set to specify the valid range in a RangeValidator control?

a) ValidRange

b) Range

c) MinimumValue and MaximumValue

d) ValueRange

33. What event handler must be implemented for CustomValidator server-side validation?

a) Validate

b) OnValidate

c) CustomValidate

d) ServerValidate

34. Which ASP.NET validation control is used to validate against a regular expression?

a) RequiredFieldValidator

b) RangeValidator

c) CompareValidator

d) RegularExpressionValidator

35. In ASP.NET, what namespace contains the validation controls?

a) System.Web.UI

b) System.Data.SqlClient

c) System.Web.Validation

d) System.Data.Validation

36. How is a regular expression specified in the RegularExpressionValidator control?

    a) Using the Pattern property

    b) Using the Regex property

    c) Using the Expression property

    d) Using the ValidationExpression property

37. What is the purpose of the EnableClientScript property in ASP.NET validation controls?
    a) To enable server-side validation

    b) To enable client-side validation

    c) To enable both client-side and server-side validation

    d) To disable validation entirely

38. Which ASP.NET control is used to force validation controls to execute?

    a) ValidateControl

    b) ExecuteValidation

    c) Page.Validate()

    d) Control.Validate()

39. What property is used to specify the control to be validated by a validation control?

    a) Control

    b) TargetControl

    c) ControlToValidate

    d) ValidateControl

40. What ASP.NET method is used to determine if the page has valid data after validation?

    a) IsValid()

    b) ValidatePage()

c) CheckValidity()

<mark>d) Page.IsValid</mark>

ANSWERS

1. C) Utilizes HTML and CSS only

2. B) urn:isbn:0451450523

3. B) To resolve domain names to IP addresses

4. B) GET

5. A) More flexibility in programmatic capabilities

6. A) Apache

7. D) Visual Studio 2022

8. B) Hidden fields

9. B) Stores session data on the server only

10. C) Specifies the page as a Web form

11. C) Hidden fields

12. B) To handle application startup, shutdown, and errors

13. B) POST

14. A) Page_Load

15. B) Links the .aspx file to its corresponding .aspx.cs file

16. B) App_Code

17. A) To store data temporarily after a postback

18. D) $_COOKIE

19. C) By right-clicking the page in the Solution Explorer and selecting "Set as Start Page"

20. B) Page initialization tasks

21. d) Flat file and Key-Value stores

22. a) mysql_connect()

23. a) SqlDataSource

24. b) In a separate configuration file

25. c) To evaluate data binding expressions at runtime

26. a) SqlDataSource

27. a) By using the DataSource property

28. a) To set the data source field used as a key

29. a) Using JavaScript

30. a) RequiredFieldValidator

31. c) CompareValidator

32. c) MinimumValue and MaximumValue

33. d) ServerValidate

34. d) RegularExpressionValidator

35. a) System.Web.UI

36. d) ValidationExpression property

37. b) To enable client-side validation

38. c) Page.Validate()

39. c) ControlToValidate

40. d) Page.IsValid