

Question 1

Which of the following is the most appropriate functionality of server-side scripting?

1. Generate web pages
2. Data exchange
3. Form validation
4. Data consistency

Answer: A

Explanation: Server-side scripts (PHP, ASP, etc.) dynamically build HTML before sending it to the client.

Question 2

Which HTTP request method is used to perform a loop-back test along the path to the target resource?

1. HEAD
2. TRACE
3. CONNECT
4. OPTIONS

Answer: B

Explanation: TRACE causes the server to echo back the received request so the client can see any changes made by intermediate proxies.

Question 3:

Which element specifies a list of predefined options for input controls?

- A. <datalist>
- B. <select>
- C. <option>
- D. <menu>

Answer: A

Explanation: The <datalist> element provides a set of suggested values that an <input> can reference via its list attribute.

Question 4

Tags and text that are not directly displayed on the page are written in the ____ section.

1. head
2. body
3. header
4. footer

Answer: A

Explanation: Metadata, scripts, styles, and the page title go in

Question 5

Which of the following browsers supports HTML5 in its latest version?

1. Mozilla Firefox
2. Opera
3. Both of the above
4. None of the above

Answer: C

Explanation: Modern releases of Firefox, Opera (and Chrome, Edge, Safari) implement HTML5.

Question 6

Which attribute triggers events when a form control's value changes?

1. onchange
2. onedit
3. onformchange
4. onforminput

Answer: A

Explanation: The `onchange` event fires when the element loses focus after its value is modified.

Question 7

Which CSS property controls whether adjacent table-cell borders collapse into a single border?

1. border-collapse
2. border-spacing
3. caption-side
4. empty-cells

Answer: A

Explanation: `border-collapse: collapse;` causes shared borders to be drawn once.

Question 8

Which CSS pseudo-class signifies visited hyperlinks?

1. `:link`
2. `:visited`
3. `:hover`
4. `:active`

Answer: B

Explanation: `:visited` matches links the user has already clicked.

Question 9

Which of the following is part of a CSS rule?

1. Selector
2. Declarations
3. Property and value
4. All of the above

Answer: D

Explanation: A CSS rule comprises a selector and one or more declarations (property: value pairs).

Question 10

How do you specify a background image in CSS?

1. `background-image: src('image.png');`
2. `background-image: url('image.png');`
3. `background-image: href('image.png');`
4. `background-image: hrf('image.png');`

Answer: B

Explanation: `url()` is the correct function to reference external images.

Question 11

What would be the output of the PHP code below?

```
echo date('y-M-d h:i:s', strtotime('2017-11-16 16:01:13'));
```

1. 2017-11-16 04:00:55
2. 17-11-16 04:00:46
3. 17-Nov-16 04:01:13
4. 17-Nov-16 16:01:13

Answer: C

Explanation:

`y` yields two-digit year (17), `M` short month name (Nov), `h` 12-hour format (04), and minutes/seconds remain 01:13.

Question 12

Which statement is true about echo in PHP?

1. Echo is just a statement
2. Echo is a function
3. Echo returns and prints the value
4. Echo is a pretty-print function

Answer: A

Explanation: echo is a language construct, not a function; it does not return a value.

Question 13

What is the syntax for multi-line commenting in PHP?

1. `// comment`
2. `/* comment */`

comment

Answer: B

Explanation: `/* ... */` spans comments over multiple lines in PHP.

Question 14

What does `$out` contain after this code?

```
$a = 2; $out = ($a == 2) ? 5 : false; echo $out;
```

1. 2
2. 5
3. false
4. true

Answer: B

Explanation: The ternary picks 5 because `$a == 2` evaluates to true.

Question 15

Which function reads a specific number of characters from a file in PHP?

1. `Filegets()`
2. `Getfile()`
3. `fgets()`
4. `fget()`

Answer: C

Explanation: `fgets($fp, $length)` reads up to `length-1` bytes from a file pointer.

Question 16

How many error levels does PHP support?

1. 16
2. 14
3. 15
4. 17

Answer: A

Explanation: PHP defines 16 standard error-reporting levels (`E_ERROR`, `E_WARNING`, etc.).

Question 17

Which function returns the error code for a MySQL connection error in PHP?

1. `connect_error()`
2. `mysqli_connect_error()`
3. `mysqli_connect_errno()`
4. `connect_errno()`

Answer: C

Explanation: `mysqli_connect_errno()` returns the numeric error code from the last connect attempt.

Question 18

What does the `sprintf()` function do in PHP?

1. Prints output by converting it to a string
2. Sends formatted output directly to a variable
3. Sends formatted output to a variable (as a string)

4. Prints output of a program

Answer: C

Explanation: `sprintf()` returns a formatted string; `printf()` prints it.

Question 19

What is the output of this PHP dynamic call?

```
function HelloWorld() { echo "HelloWorld"; } $name = "helloworld";  
$name();
```

1. Fatal Error
2. Helloworld
3. HelloWorld
4. No Output

Answer: C

Explanation: Function names in PHP are case-insensitive; it invokes `HelloWorld()`.

Question 20

Count the number of array elements in:

```
$animals = array( "Lion", "Tiger", "Leopard", array("Dog","Cat","Cow"),  
array("Fish","Turtle","Whale") );
```

1. 11
2. 9
3. 10
4. 5

Answer: B

Explanation: Three top-level + three in the first sub-array + three in the second = 9 total.

Question 21

What is the correct syntax of the XML declaration?

- 1.
- 2.
- 3.
- 4.

Answer: C

Explanation: The XML prolog uses with no space after .

Question 22

XML is designed to _____ and store data.

1. transport
2. design
3. verify
4. None of these

Answer: A

Explanation: XML's primary purpose is to transport and carry structured data.

Question 23

In DTD, _____ defines:

- 1.
- 2.
- 3.
- 4.

Answer: D

Explanation: introduces the document type declaration.

Question 24

To associate an external DTD, which is the correct syntax?

- 1.
- 2.
- 3.
4. None of these

Answer: B

Explanation: The SYSTEM keyword directs the parser to an external DTD file.

Question 25

XSLT is used for:

1. Transforming an XML document into another XML document
2. Using XPath to navigate XML documents
3. Being a W3C Recommendation
4. Being a Cascading Style Sheet

Answer: A

Explanation: XSLT's core purpose is XML → XML (or HTML/text) transformation.

Question 26

In the XML snippet below, how many nodes and attributes are present?

XML Tutorials 100 \$300.00

5. 6 nodes, 1 attribute
6. 7 nodes, 1 attribute
7. 8 nodes, 1 attribute
8. 7 nodes, 2 attributes

Answer: B

Explanation: Nodes: book, bname, text("XML Tutorials"), pages, text("100"), price, text("\$300.00") = 7; Attribute: category = 1.

Question 27

Templates in XSLT are defined by which element?

- 1.
- 2.
- 3.
- 4.

Answer: B

Explanation: defines a template for matching and processing XML nodes.

Question 28

Some characters have special meaning in XML; these are called:

1. Variables
2. Symbols
3. Entities
4. None of these

Answer: C

Explanation: Entities (like <, &) represent reserved XML characters.

Question 29

Which size class is not available in Bootstrap?

1. xl
2. lg
3. sm
4. xs

Answer: D

Explanation: Bootstrap's grid breakpoints start at sm (576 px); there is no xs class.

Question 30

Which font-color scheme is not available in Bootstrap?

1. warning
2. danger
3. information
4. muted

Answer: C

Explanation: Bootstrap's contextual text color classes include `.text-warning`, `.text-danger`, `.text-info`, and `.text-muted`; there is no `.text-information`.

Question 31

Which code returns a valid JSON object?

1. `JSON.parse('({"FirstName": "Web", "LastName": "Programming"}))';`
2. `JSON.parse('{ 'FirstName': 'Web', 'LastName': 'Programming' })';`
3. `JSON.parse("({ 'FirstName': 'Web', 'LastName': 'Programming' })");`
4. `JSON.parse('{"FirstName": "Web", "LastName": "Programming"}');`

Answer: D

Explanation: JSON requires double quotes around keys and string values; option D is the only valid format.

Question 32

In `{ "Employee": ["Amit", "Nilesh", "Abhishek"] }`, "Employee" is a:

1. Not a valid JSON string
2. Array
3. Class
4. Object

Answer: D

Explanation: The curly braces `{ ... }` denote a JSON object; "Employee" is its key.

Question 33

Which size class is not available in Bootstrap? (duplicate of Q29)

1. xl
2. lg
3. sm
4. xs

Answer: D

Explanation: See Q29.

Question 34

Which of these is a benefit JSON has over XML?

1. JSON is more forgiving of poor formatting
2. JSON has less markup and is therefore lighter
3. JSON can be written poorly and still be parsed
4. JSON must be stored in a file to be sent remotely

Answer: B

Explanation: JSON's syntax is terser than XML's tag-based format, making it more lightweight.

Question 35

What does JSON stand for?

1. JavaScript Object Nomenclature
2. JavaScript Objective Notation
3. JavaScript Object Notation
4. JavaScript Orientated Nomenclature

Answer: C

Explanation: JSON derives its name from JavaScript's object literal syntax—JavaScript Object Notation.

Question 37

Which character is most commonly used in SQL-injection attacks?

1. Single quote (')
2. Null (NUL) byte
3. Less-than sign (<)
4. Greater-than sign (>)

Answer: A

Explanation: Injecting an extra ' can prematurely close string literals and manipulate queries.

Question 38

Which is the best way to define disallowed inputs?

1. Allow list
2. Block list
3. Table indirection
4. Escaping

Answer: A

Explanation: Whitelisting acceptable input is more secure than blacklisting malicious patterns.

Question 39

Which languages are the primary targets of cross-site scripting (XSS)?

1. HTML
2. SQL
3. XSLT
4. XPath

Answer: A

Explanation: XSS attacks inject malicious code into HTML pages that browsers will execute.

Question 40

Which attack occurs when a malicious user tricks a victim into sending a payload that the server reflects back?

1. Reflected XSS
2. Persistent XSS
3. Basic SQL Injection
4. Remote File Inclusion

Answer: A

Explanation: In Reflected XSS, the server immediately returns the attacker's input in the response.