**PHP**

1. Which PHP function is used to output data to the screen?
   1. print()
   2. echo()
   3. write()
   4. display()

**Correct Answer: b**

1. What does the 'global' keyword do in PHP?
   1. Declares a variable within a function as global
   2. Declares a variable within a class as global
   3. Declares a variable outside of a function as global
   4. Declares a variable within a loop as global

**Correct Answer: a**

1. Which function is used to add elements to the end of an array in PHP?
   1. array\_push()
   2. array\_pop()
   3. array\_append()
   4. array\_add()

**Correct Answer: a**

1. Which variable holds information about the HTTP request in PHP?
   1. $\_POST
   2. $\_GET
   3. $\_SERVER
   4. $\_REQUEST

**Correct Answer: c**

1. Which function is used to open a file in PHP for reading?
   1. open\_file()
   2. fopen()
   3. read\_file()
   4. file\_open()

**Correct Answer: b**

1. Which function is used to find the length of a string in PHP?
   1. str\_length()
   2. string\_length()
   3. len()
   4. strlen()

**Correct Answer: d**

1. Which keyword is used to handle exceptions in PHP?
   1. try
   2. Handle
   3. Catch
   4. Throw

**Correct Answer: a**

1. How are cookies created in PHP?
   1. set\_cookie()
   2. create\_cookie()
   3. send\_cookie()
   4. setcookie()

**Correct Answer: d**

1. What is the purpose of sessions in PHP?
   1. To store data temporarily on the client-side
   2. To store data permanently on the server-side
   3. To maintain state across multiple page requests
   4. To encrypt sensitive data during transmission

**Correct Answer: c**

1. Which extension is commonly used in PHP for interacting with MySQL databases?
   1. Mysqli
   2. pdo\_mysql
   3. mysql
   4. sqlsrv

**Correct Answer: b**

**JAVASCRIPT**

1. What will be the output of the following code?

**console.log(typeof typeof 1);**

1. number
2. String
3. Undefined
4. Object

**Correct Answer: b**

1. Which of the following methods can be used to add an element to the end of an array in JavaScript?
2. array.push(element)
3. array.unshift(element)
4. array.add(element)
5. array.append(element)

**Correct Answer: a**

1. What does the following code snippet output?  
   **console.log(0.1 + 0.2 === 0.3);**
2. True
3. False
4. TypeError
5. SyntaxError

**Correct Answer: b**

1. Which method is used to remove the last element from an array in JavaScript?
2. array.removeLast()
3. array.pop()
4. array.deleteLast()
5. array.splice(-1, 1)

**Correct Answer: b**

1. What will be the result of the following expression?  
   **10 + "5"**
2. 15
3. "105"
4. "15"
5. Error

**Correct Answer: b**

1. What does the following code snippet output?  
   **console.log(+"2" + +"3");**
2. 5
3. “5”
4. 23
5. NaN

**Correct Answer: a**

1. What is the purpose of the setTimeout() function in JavaScript?
2. To set a timeout before executing a function
3. To set a timeout before executing a function
4. To execute a function after a specified delay
5. To cancel a timer that was previously set

**Correct Answer: c**

1. Which JavaScript method is used to iterate through the properties of an object?
2. forEach()
3. map()
4. for...of loop
5. for...in loop

**Correct Answer: d**

1. What is the correct way to check if a variable is undefined in JavaScript?
2. if (myVar === undefined)
3. if (myVar == null)
4. if (typeof myVar === "undefined")
5. All of the above

**Correct Answer: d**

**Laravel**

1. Which component of Laravel handles database interactions?

a) Model

b) Controller

c) Route

d) Middleware

**Correct Answer: a**

2. What command is used to generate a new Laravel model?

a) php artisan generate:model

b) php artisan make:model

c) php artisan create:model

d) php artisan build:model

**Correct Answer: b**

3. What is the purpose of Laravel's Blade templating engine?

a) To handle database migrations

b) To generate dynamic HTML views

c) To manage user authentication

d) To define application routes

**Correct Answer: b**

4. How does Laravel implement routing?

a) Through configuration files only

b) By defining routes within controllers

c) Using a combination of routes and controllers

d) Exclusively through annotations on model classes

**Correct Answer: c**

5. Which Laravel middleware is commonly used for user authentication?

a) Auth::login()

b) Auth::check()

c) Auth middleware

d) Session middleware

**Correct Answer: c**

6. What is the Artisan command used to migrate database tables?

a) php artisan migrate:up

b) php artisan migrate:create

c) php artisan migrate:refresh

d) php artisan migrate:reset

**Correct Answer: a**

7. How do you define a custom validation rule in Laravel?

a) By creating a new validation class

b) By extending the Validator class

c) Using the Rule facade

d) Directly modifying the validation rules array

**Correct Answer: c**

8. What is the Laravel service container responsible for?

a) Managing database connections

b) Handling user sessions

c) Resolving object dependencies

d) Defining application routes

**Correct Answer: c**

9. Which mechanism is used for caching data in Laravel?

a) Manually storing data in the filesystem

b) Utilizing the cache helper function

c) Defining custom caching logic in controllers

d) Relying on database queries for all data

**Correct Answer: b**

10. How does Laravel handle events and listeners?

a) Through global functions defined in controllers

b) Using the event facade and listener classes

c) By manually checking for events in each controller method

**Correct Answer: b**

**Markup Language & JSON**

1. Which of the following statements is NOT true about XML elements?

1. They can contain text, attributes, or other elements.
2. They must have a closing tag.
3. They are case-sensitive.
4. They can have a namespace prefix.

**Correct Answer: c**

2. What is the primary purpose of a Document Type Definition (DTD) in XML?

1. To define the structure of an XML document.
2. To validate the content of an XML document.
3. To style the presentation of an XML document.
4. To encrypt the data in an XML document.

**Correct Answer: a**

3. What is the role of attributes in XML elements?

1. To provide additional information about an element.
2. To define the content of an element.
3. To nest other elements within an element.
4. To specify the data type of an element's content.

**Correct Answer: a**

4. Which of the following methods is used to parse an XML document in a programming language?

1. Regular expressions
2. A dedicated XML parser library.
3. A string manipulation library.
4. A database management system.

**Correct Answer: b**

5. What is the advantage of using XML over plain text for data exchange?

1. XML is more human-readable than plain text.
2. XML provides a structured way to represent data.
3. XML is more efficient for data storage.
4. XML is more secure than plain text.

**Correct Answer: b**

6. What data types are natively supported by JSON?

1. Strings, numbers, booleans, arrays, and objects.
2. Strings, integers, floats, lists, and dictionaries.
3. Text, numbers, true/false, collections, and maps.
4. Characters, decimals, logical values, sequences, and structures.

**Correct Answer: a**

7. How does JSON differ from XML in terms of data representation?

1. JSON is more verbose than XML.
2. JSON uses tags and attributes like XML.
3. JSON uses key-value pairs for data organization.
4. JSON is less structured than XML.

**Correct Answer: c**

8. What is the benefit of using JSON for data exchange in web APIs?

1. JSON is more secure than other data formats.
2. JSON is lightweight and easy to parse.
3. JSON provides strong data validation capabilities.
4. JSON is the only format supported by all web browsers.

**Correct Answer: b**

9. Which of the following statements is true about JSON arrays?

1. They can only contain elements of the same data type.
2. They represent a collection of ordered values.
3. They are used to define the structure of a JSON document.
4. They cannot contain nested objects or arrays.

**Correct Answer: b**

10. What is the appropriate way to write a comment in JSON?

1. JSON does not support comments directly.
2. Use `` syntax.
3. Enclose comments in single quotes (').
4. Prepend comments with //.

**Correct Answer: a**