# QUIZ 1 – PHP

# WEBD 5201 Web Development Frameworks

Name: _____

Student Id: _____

1) What does PHP stand for? (1 Mark)
   a) Personal Home Page
   b) Preprocessed Hypertext
   c) PHP: Hypertext Preprocessor
   d) Public Hyperlink parser

2) What does the acronym MVC stand for when discussing web (or application) development frameworks? (6 marks)

3) What's your favourite design pattern? Explain Why? (6 marks)

4) Which function is used to output text in PHP? (1 Mark)
   a) output()
   b) write()
   c) echo()
   d) print()

5) When defining class properties and methods, what is the purpose of PHP's public, private, and protected keywords? (3 Marks)
   a) They determine the data type of the property or method.
   b) They control the visibility and accessibility of properties and methods within a class hierarchy.
   c) They define the scope of a variable.
   d) They are used to specify the order of execution in PHP scripts.

6) What does the "for each" code block print? (2 Marks)

```php
$fruits = array(

"apple" => "red",

"banana" => "yellow",

"grape" => "purple"

);


foreach ($fruits as $fruit => $color) {

echo "The $fruit is $color.<br>";

}
```

a)  The apple is red.

   The banana is yellow.

   The grape is purple.

b)  The red is apple.

   The yellow is banana.

   The purple is grape.

c)  The apple is yellow.

   The banana is purple.

   The grape is red.

d)  The red is apple.

   The yellow is grape.

   The purple is banana.

7) Which of the following is the correct way to start a PHP script? (1 Mark)
   a) <?
   b) <php
   c) <?php
   d) <?=

8) Describe the differences between GET and POST methods in PHP and when you should use each for sending data to the server. (5 marks)

9) What is the primary purpose of using regular expressions (regex) in validation in PHP? Provide a simple use case (5 marks).

10) What is the primary purpose of using comments in your PHP code? (1 Mark)
   a) To hide sections of code that you don't want others to see.
   b) To provide instructions to the PHP interpreter on how to execute the code.
   c) To make your code more readable and understandable for developers.
   d) To create a visual design element in your web application.

11) Which PHP framework is known for its elegant syntax and features like routing, Eloquent ORM, and Blade templating? (1 Mark)
   a) Symfony
   b) Laravel
   c) CodeIgniter
   d) Yii

12) What is the primary difference between server-side PHP and client-side JavaScript in web development? (1 Mark)
   a) PHP creates interactive user interfaces, while JavaScript handles server-side data processing.
   b) PHP runs on the server and is responsible for generating web content, while JavaScript runs in the user's browser to provide interactivity and dynamic behaviour.
   c) PHP and JavaScript are interchangeable and can be used interchangeably for any web development task.
   d) PHP and JavaScript execute on the client side to handle user interactions and generate web content.

13) Which of the following is the correct syntax for a single-line comment in PHP? (1 Mark)
   a) //This is a comment
   b) # This is a comment
   c) /* this is a comment */
   d) − This is a comment

14) What is Laravel? (Mark: 1)
   a) A JavaScript framework
   b) A PHP framework
   c) A database management
   d) An operating System

15) What is the software package manager's name used to load Laravel and all its components onto a computer?  (Mark: 4)

---

16) Which Laravel command is used to run database migrations? (Mark: 1)
   a) php artisan migrate
   b) php migrate:database
   c) composer update
   d) php artisan db:seed

17) What is the purpose of Laravel's Blade templating engine? (Mark: 1)
   a) To handle database migrations
   b) To write unit tests
   c) To create views and templates with a simplified syntax
   d)  To define Eloquent models

18) In Laravel, what does the php artisan serve command do? (5 marks).

19) In Laravel, what is the purpose of the .env file? (2 Mark)
    a) To define routes and controllers
    b) To store database credentials and other configuration settings
    c) To create Blade templates
    d) To manage JavaScript dependencies
20) Which of the following methods is most effective for preventing SQL injection in the PHP application? (2 Mark)
    a) Using 'mysql_real_escape_string()' to sanitize user input
    b) Employing prepared statements with placeholders
    c) Manually filtering and validating the user input
    d) Encrypting all the user input data

Total Marks: _____/ 50

Date: _____