504 – Web Framework and Services [QUESTION BANK]

Unit 1: Core PHP Programming

📥 **MCQs (1 Mark Each)**

1. **PHP is mainly used for:**

   a) Desktop applications

   <mark>b) Server-side scripting</mark>

   c) Operating systems

   d) Mobile apps

2. **Which symbol is used to declare a variable in PHP?**

   a) #

   <mark>b) $</mark>

   c) @

   d) %

3. **Which of the following is NOT a valid data type in PHP?**

   a) Boolean

   b) Integer

   c) Float

   <mark>d) Character</mark>

4. **The operator === in PHP checks for:**

   a) Equality only

   <mark>b) Equality and type</mark>

   c) Greater value

   d) String comparison

5. **Which function is used to count elements in an array?**

   a) array_count()

b) count()

c) sizeof()

d) Both b & c

6. **PHP statements are terminated by:**

a) :

b) ;

c) ,

d) .

7. **Which superglobal is used to get values sent in URL?**

a) $_POST

b) $_GET

c) $_SESSION

d) $_COOKIE

8. **Which function is used to combine arrays with keys?**

a) array_merge()

b) array_combine()

c) array_push()

d) array_add()

9. **Which loop is best used for associative arrays?**

a) for

b) while

c) foreach

d) do-while

10. **Constants in PHP are defined using:**

a) set()

b) define()

c) const()

<mark>d) Both b & c</mark>

Descriptive Questions (4 Mark Each)

1. Explain the structure of a PHP script with example.

2. Differentiate between echo and print with examples.

3. Explain different types of arrays in PHP with examples.

4. Write a PHP program using conditional statements to check whether a number is even or odd.

5. Explain GET and POST method with example.

6. What is the purpose of PHP's $_GET, $_POST, $_FILE, $_SESSION, $_COOKIE super global array?

Unit 2: Advanced PHP and File Management

MCQs (1 Mark Each)

1. **Which statement is used to include external files in PHP?**

   a) include

   b) require

   <mark>c) Both a & b</mark>

   d) None

2. **Which function is used to open a file?**

   a) fopen()

   b) file_open()

   c) readfile()

   d) open()

3. **The correct way to move uploaded files in PHP is:**

   a) move_file()

   b) upload_file()

   c) move_uploaded_file()

   d) file_upload()

4. **Which superglobal is used for uploaded file details?**

   a) $_FILES

   b) $_POST

   c) $_SERVER

   d) $_REQUEST

5. **JSON data in PHP can be generated using:**

   a) json_generate()

   b) json_encode()

   c) json_decode()

   d) encode_json()

6. **Which function is used for validating emails in PHP?**

   a) validate_email()

   b) filter_var()

   c) check_email()

   d) email_filter()

7. **Cookies in PHP are created using:**

   a) setcookie()

   b) set_session()

   c) create_cookie()

   d) cookie_start()

8. **Sessions in PHP are started using:**

   a) start_session()

   b) session_start()

   c) new_session()

   d) init_session()

9. **Which keyword is used in exception handling?**

   a) throw

   b) catch

   c) try

   d) All of the above

10. **Regular expressions in PHP are handled using:**

    a) preg_match()

    b) regex_match()

    c) match()

    d) str_match()

11. **Which keyword is used to define a class in PHP?**

    a) class

    b) object

    c) define

    d) struct

12. **Which method is called automatically when an object is created?**

    a) __start()

    b) __construct()

    c) __create()

    d) __init()

13. **Which visibility keyword allows access only inside the same class?**

    a) public

    b) private

    c) protected

    d) default

14. **Inheritance in PHP is achieved using the keyword:**

    a) extends

    b) inherit

    c) implements

    d) super

15. **Which symbol is used to access properties and methods of an object?**

    a) ->

    b) ::

    c) .

    d) :

16. **Which type of property can be accessed from outside the class?**

    a) private

    b) protected

    c) public

    d) static only

17. What is Method Overriding?

a) Two functions with same name in same class

b) Function in child class with same name as in parent

c) Multiple constructors

d) None of these

18. Which magic method is used as a destructor in PHP?

a) __construct()

b) __delete()

c) __destroy()

d) __destruct()

19. Which feature of OOP allows reusing existing class functionality?

a) Polymorphism

b) Encapsulation

c) Inheritance

d) Abstraction

20. How do you create an object in PHP?

a) $obj = new ClassName();

b) object ClassName();

c) ClassName obj();

d) new object(ClassName);

Descriptive Questions (4 Mark Each)

1. Explain the difference between include and require with examples.

2. Explain file handling in PHP with fopen() and fwrite() example.

3. Explain how to handle file uploads using $_FILES with example.

4. Explain cookie creation and retrieval in PHP with example.

5. Write a short note on exception handling in PHP.

6. How to Send Email using PHP?

7. Explain Class and Object in PHP with example.

8. Explain Constructor in PHP with example.

9. Explain Property Visibility in PHP.

10. Explain Inheritance with example.

11. Explain Method Overriding with example.

Unit 3: Database Interaction and CodeIgniter Framework

MCQs (1 Mark Each)

1. **Which function is used to connect to MySQL in PHP?**

   a) mysql_connect()

   b) mysqli_connect()

   c) connect_db()

   d) pdo_connect()

2. **Which SQL clause is used to sort results?**

   a) WHERE

   b) ORDER BY

   c) GROUP BY

   d) SORT

3. **CRUD stands for:**

    a) Create, Read, Update, Delete

    b) Copy, Replace, Update, Drop

    c) Create, Run, Use, Delete

    d) None

4. **AJAX allows:**

    a) Asynchronous data transfer

    b) Only synchronous calls

    c) Database creation

    d) CSS styling

5. **In AJAX, which object is used for requests?**

    a) XMLHttpRequest

    b) AjaxObject

    c) AjaxHandler

    d) XMLHandler

6. **In CodeIgniter, the full form of MVC is:**

    a) Model View Control

    b) Model View Controller

    c) Module View Control

    d) My View Controller

7. **Default controller in CodeIgniter is defined in:**

    a) config/routes.php

    b) config/database.php

    c) config/autoload.php

    d) controller/index.php

8. **Which helper is used for form handling in CodeIgniter?**

    a) form_helper

    b) formhandler_helper

    c) validation_helper

    d) data_helper

9. **In CodeIgniter, flashdata is used for:**

    a) Temporary session data

    b) Permanent storage

    c) Database connection

    d) File handling

10. **Which function in PHP is used for JSON decoding?**

    a) json_decode()

    b) json_encode()

    c) json_read()

    d) decode_json()

Descriptive Questions (4 Mark Each)

1. Explain how to connect PHP with MySQL using mysqli_connect().

2. Explain CRUD operations in PHP with example queries.

3. Write short notes on AJAX and its role in backend integration.

4. Explain MVC architecture in CodeIgniter with diagram.

5. Explain session management and flashdata in CodeIgniter.