WD Question Bank

Q - 1 Answer the following in Detail (2 marks)

1) Explain scope of global variables using PHP code snippet.

2) Enlist data types supported by PHP. Exemplify any one.

3) Write a PHP script for following math function:
   a. pi()
   b. min()
   c. max()

4) With appropriate diagram, explain client-server architecture.

5) Draw a diagram and explain PHP framework application architecture.

6) Write a PHP script to demonstrate logical operators and explain it.

7) Explain scope of static variable using PHP code snippet.

How to define variable and user-defined constants in PHP?

9) Draw and explain MVC architecture.

10) Write a PHP script to demonstrate bitwise operators with output.

11) Discuss the usage of *switch case* statement in PHP with an example.

12) Explain the characteristics of PHP.

13) Differentiate *for* and *foreach* loop statements using appropriate PHPscripts.

14) Discuss any two differences between *echo* and *print* statements ofPHP with suitable examples.

15) State the advantages of client-server architecture and explain anytwo.

16) Explain the following code snippet and its output.

```php
<?php
    $a = "Good";
    $b = "Morning";

    echo 'Teacher says, '.$a.''.$b.' class!!\n';echo
    '\n is use to enter in newline\n'; echo '\t is
    use to leave tab in output\n';
?>
```

17) Enlist various data types supported by PHP using suitable examples.

Q - 2 Answer the following in detail. (6 Marks)

1) Justify the following statement using function and argument passing."PHP is a loosely typed language."

2) Describe sprintf() method of string formatting along with all its parameters.

3) Write a PHP script to demonstrate various array operators for following arrays:
   $a = array("a" => "apple", "b" => "banana");
   $b = array("a" => "pear", "b" => "strawberry", "c" => "cherry");

4) Enlist any six string manipulation functions of PHP and explain three of them with appropriate examples.

5) Explain the output of following code snippet:

   - **<?php**
     $price = 2678.996;
     printf("\$%12.2f\n\n",$price);
     ?>
   - **<?php**
     printf("%10.2f\n",3.1);
     printf("%11.3f\n",30.1);
     printf("%12.4f\n",300.1);
     ?>
   - **<?php**
     $num = 126;
     $course = 'CSE';
     $year = 2021;
     $format = 'There are %2$d students in %1$s batch in the %3$dyear';
     echo sprintf($format, $course, $num, $year);
     ?>

6) Write and explain a demonstrative PHP script to generate array variables for indexed and associative arrays.

7) Write and explain a PHP script to demonstrate array-handling operators.

8) Enlist any six array manipulation functions of PHP and explain any three of them with appropriate examples.

9) Write a PHP script to create a function which will accept below mentioned string as an argument and will return the given output.

   "I am <i>taking</i> exam of,
Web Designing<p>at UTU."

   Output: I am *taking* exam of,
Web Designing<p>at UTU.

10) Enlist and explain various ways of passing arguments to a function inPHP using an example.

11) Explain following string functions using appropriate example.
    a. str_pad()
    b. str_split()
    c. str_replace()

12) Write a PHP script to perform ascending order and descending ordersorting of indexed and associative array.

13) Explain types of arrays supported by PHP with suitable demonstrativePHP script.

14) Discuss the importance of *declare(strict_types=1)* in PHP and statethe output of following code snippet.

```php
<?php declare(strict_types=1);
   function sum(int $a, $b) {
      return $a + $b;
   }
   echo sum(5, "5 days")."\n\n";

   function mul(int $a, int $b) {
      return $a * $b;
   }
   echo mul(5, "5 days");
?>
```

15) Define array_diff() and array_merge() functions. State the output of following code snippet.

```php
<?php
   $pudding = array('raspberry'=>111, 'peach'=>222, 'chocolate'=>333);
   $icecream = array('raspberry'=>444, 'peach'=>555, 'chocolate'=>666);
   print_r(array_diff($icecream, $pudding));
   print_r(array_diff($pudding, $icecream));
   print_r(array_merge($pudding, $icecream));
 print_r(array_merge($icecream, $pudding));
?>
```

16) Explain following array functions using appropriate example.

   a. array_chunk()

   b. array_search()

   c. array_intersect()

17) Write a PHP script to do the following:

   a. Create a function which will taken a string as an argument and will return an array

   b. Create a function which will take an array as an argument and will return a string.

18) Write a PHP script to count total number of alphabets, digits andspecial characters in a string.

Q - 3 Answer the following in detail. (6 Marks)

1) State the usage of following server's variables:
    a. $_SERVER['PHP_SELF']
    b. $_SERVER['SERVER_NAME']
    c. $_SERVER['REQUEST_TIME']
    d. $_SERVER['QUERY_STRING']
    e. $_SERVER['HTTP_ACCEPT']
    g. $_SERVER['SCRIPT_NAME']

2) Write a PHP script to submit a form shown in the image and print the response.

3) State the difference between Get, Post and Request methods.

4) Write a PHP script to submit login credentials to the server and getthe response of either "Welcome to UTU" or "You are not the legitimate user of the website".

5) Explain any six server variables.

6) Write a PHP script to get the browser type and display belowmessage accordingly.
    "You are using <browser-type>!!"

7) Describe PHP filters to validate data user input.

8) Explain various HTTP variables.

9) Write a PHP script to submit a registration form having following fields and print the
response.

    Name:
    Gender:
    Area of Interest: (Networking, Security, Data Science, Cloud
    Computing)
    Adress:

10) Write a PHP script to check if user entered required data to the
    registration form of an e-commerce website.

11) Differentiate GET and POST methods.

12) Write a PHP script to upload a file and display the content of it.

13) Write a PHP script to display a clickable image and redirect it to other websites based on the co-ordinates fetched.

14) Discuss about $_FILES array of PHP to handle uploaded files.

15) Write a PHP script to display following message on the browser.
The <a> tag defines a hyperlink. Example Uka Tarsadia University. To learnmore about <a> tag click on the below link.

HTML Tutorial

16) Write a PHP script to ensure that user entered age as integer onlyand name as text only.

17) Explain header() function of PHP along with demonstrative PHPscript.

18) Write a PHP script to upload and download a .pdf and .php file.

Q - 4 Answer the following in Detail (2 Marks)

1) Write a PHP script to demonstrate the difference between public and private access modifiers.

2) Define Static class. Demonstrate it using a PHP script.

3) State the difference between abstract class and interface.

4) 4) How inheritance is implemented in PHP? Explain how base class methods and properties are accessed.

5) Write a PHP script to demonstrate method overloading.

6) Explain interfaces using an appropriate example.

7) Explain protected access modifiers of PHP using sample code snippet.

8) Write a PHP script to demonstrate comparison of objects.

9) Explain public and private access modifiers of PHP using sample code snippet.

10) Write a PHP script to demonstrate method overriding.

11) Discuss the importance of final keyword in inheritance.

12) Define constructor. Write a PHP script to demonstrate the usage of constructor.

13) Write a PHP script to demonstrate methods and properties access without creating a object of that class.

14) Explain iterator interface using a PHP script.

15) Define destructor. Write a PHP script to demonstrate the usage of destructor.

16) Explain abstract class using an appropriate example.

17) Write a PHP script to implement multiple inheritance.

Q - 5 Answer the following in detail. (6 Marks)

1) State different ways of performing file read operation.

2) Write a PHP script to connect to mysql server and fetching data froma table named "employee".

3) Demonstrate the setting of a cookie to a web page and read it on theanother page of the same domain.

4) Describe fopen() function along with possible options of modes usingan appropriate example.

5) Explain any six mysql functions supported by PHP.

6) Write a PHP script to set and read cookies. Explain functions used init.

7) Explain any six FTP functions supported by PHP.

8) Write a PHP script to open a file and read content of it.

9) Explain connectivity of PHP & MySQL using an example and retrievethe records from the table named *student* stored in MySQL.

10) Write a PHP script to create a new table using mysql functions.

11) Explain parsing of files using file handling functions.

12) Write a PHP script to read remote directory with FTP. Explain PHP functions used in it.

13) Explain reading and writing binary files.

14) Write a PHP script to send an e-mail with attachment.

15) State the characteristics of mysql database

Q - 6 Answer the following in detail. (6 Marks)

1) **Define XMLHttpRequest object methods for Mac OS.**

2) Write a PHP script to allow user to find their name in the database. Ifnot found create a new username. Complete this task using Ajax.

3) Explain passing data to the server with Request method using Ajax.

4) Define XMLHttpRequest object properties for Mozilla.

5) Explain passing data to the server with GET method using Ajax.

6) Describe handling concurrent Ajax requests with a Javascript.

7) Explain communication of Google suggest with its users.

8) Define XMLHttpRequest object methods for Mozilla.

9) Explain passing data to the server with POST method using Ajax.

10) State advantages and disadvantages of Ajax.

11) Write a demonstrative PHP script to start downloading from the server using Ajax.

12) Define XMLHttpRequest object properties for safari.

13) Define XMLHttpRequest object methods for safari.

14) Describe handling concurrent Ajax requests with multiple XMLHttpRequest objects.

15) Write a PHP script to allow user to decide their username and giveerror message if it already exist using Ajax.

16) Write a PHP script to read HTTP headers sent back from server using Ajax.

17) Discuss open method of XMLHttpRequest object along with demonstrative PHP script.

18) Describe handling concurrent Ajax requests with an XMLHttpRequest array.