HTML CSS JavaScript

Unit 1

1. Define HTML? What does markup stands for?
2. Give a basic structure for an HTML page.
3. What are heading tags?
4. What are list tags in HTML? Also define their types.
5. What are comments in HTML?
6. What is the use of anchor tag in HTML?
7. How do you create a table in HTML? Define all the tags related to it. Define rowspan and colspan.
8. Define:
    - <form>
    - <label>
    - <input>
    - <textarea>
    - <fieldset>
    - <legend>
    - <select>
    - <option>

    Which of these are paired tags?
9. What input types can be given in HTML using <input>?
10. What is CSS? Define all its types.
11. What is the use of <style>? How do you define a tag, class, id through it?
12. Differentiate between Static and Dynamic Web Pages.
13. Differentiate between Client-Side Scripting and Server-Side Scripting.
14. How do you embed JavaScript into an HTML code? What are the various ways?
15. Explain DOM in HTML.
16. Define the following:
    - Document.write()
    - Document.getElementById()
    - innerHTML

- textcontent
- value

17. What is the difference between the id and name attribute of a tag in HTML?
18. Differentiate between var and let variable declaration in JavaScript.
19. Explain 3 types of pop-up messages available in JavaScript.
20. What are Event Listeners? Draft a demo program to demonstrate the same.
21. Define:
    Onmouseover()
    Onmouseout()
    Onmousein()
    Onmousemove()
    Onclick()
22. Explain all the elements of
    'document.style.backgroundColor=pink'; in JavaScript.
23. What are Control Structures in JavaScript?
24. Define all the jump statements in JavaScript.
25. Differentiate between while and do while.
26. Mention some Operators in JavaScript.
27. List the types of primitive and non-primitive datatypes in JS.
28. Why do we need arrays in JavaScript? How do you create an array in JavaScript?
29. Define:
    Pop()
    Push()
    Shift()
    Unshift()
    Splice()
30. Demonstrate use of concat().
31. What is the output?

```
let ages = [32, 33, 16, 40];
let result = ages.filter(checkValue);
console.log(result)
function checkValue(agey) {
return agey >= 30;
}
```

32. What is the output?

```
let numbers = [1,2,3,4];
let newArr = numbers.map(myFunction)
console.log(newArr)
function myFunction(num) {
return num * 10;
}
```

33. Demonstrate use of the following:
    - Find()
    - findIndexOf()
    - fill()
    - some()
    - every()

34. What is Associative Array in JS?
35. What is Exception Handling in JS? Define Exception Handlers.

PHP

Unit 2, 3

1. Briefly introduce what is PHP.
2. Compare between echo and print statement in PHP?
3. What makes the difference between:
    - pre-increment and post-increment

- pre-decrement and post-decrement

4. Describe for each loop in PHP.
5. Discuss the need of functions and how is it constructed in PHP. Demonstrate an example to discuss functions having argument and return type
6. What is an escape sequence in PHP? What is the use of it? Give examples.
7. Give an example of Concatenation Assignment Operator in PHP.
8. Justify why function overloading is not supported in PHP?
9. Define the following:
    - Strlen()
    - Strpos()
    - Substr()
    - Str_replace()
    - Strtolower()
    - Strtoupper()
    - Ucfirst()
    - Strrev()
    - Char()
    - Ord()
    - Htmlspecialchars()
10. Define:
    Time()
    Strtotime()
    Date_create()
    Date_diff()
11. Differentiate between get and post method.
12. State the various types of Arrays in PHP. Give example for declaring the types in each.
13. What is an Indexed Array in PHP?
14. Define Encapsulation. What are the various access modifiers?
15. Define all the modes available in file handling.

16. What filesize() does in fread()? Define fopen(), fwrite() and fclose().
17. Differentiate between an Abstract and an Interface.
18. What is the significance of the keywords 'extends' and 'implements'?
19. Give an example of interface.
20. Can interfaces inherit a class?
21. Determine the significance of 'this' keyword.
22. A class can inherit a single class and many interfaces at a time. True or False?
23. Give an example of abstraction in PHP. Create an abstract class User with public functions to set a name and get a name and an abstract function StateYourRole(). Create another class Viewer and define the public function StateYourRole() previously created in class User. Demonstrate with the creation of objects.

MySQL

Unit 4

1. What is meant by CRUD operations?
2. Define UPDATE, MODIFY, and ALTER.
3. Differentiate between DELETE, DROP, and TRUNCATE.
4. What is meant by DDL, DML, and DQL in SQL?
5. Explain the significance of SELECT, WHERE, FROM, and LIKE.
6. Define:
   Primary Key
   Foreign Key
   Unique Key
   Composite Key
   Super Key

7. What is the difference between CREATE DATABASE and CREATE TABLE.
8. Specify the purpose and the parameter that are passed in the mysqli_connect() method. Give an example for the same.
9. State the steps to connect to the database and explain it.
10. Explain the steps for designing & creating your web database project with suitable example for accessing MYSQL database from web with PHP.