

<b>Uka Tarsadia University (Diwaliba Polytechnic)</b>
<b>Diploma in Computer Engineering/ Information Technology</b>
<b>Assignment (Advanced Web Development)</b>

### **Unit 1: DHTML**

1. Difference between Static HTML and Dynamic HTML with an example.
2. What is DHTML? What are the features of DHTML.
3. What is the use of DHTML in Web Development?
4. Write advantage of DHTML.
5. Write disadvantage of DHTML.
6. Explain working of DHTML.
7. How DHTML work with JavaScript? Give an example.
8. How to use JavaScript with HTML DOM? Give an example.
9. How to change an HTML element using HTML DOM? Give an example.
10. How to change an HTML attribute using HTML DOM? Give an example.
11. How FontSize and Font Size is differ in DHTML? Give an example.
12. How to access and change the innerHTML of an element. Give an example.
13. How to access an image element and change the "src" attribute. Give an example.
14. How to change the style of an element using the this object. Give an example.
15. How to change the style of an element using getElementById. Give an example.
16. How to make an element invisible. Give an example.
17. How to use JavaScript with HTML event? Give an example.
18. What is Event? Explain with an example.
19. Enlist Types of event.
20. How to handle events with DHTML? Give an example.
21. How to change the color of an element when the cursor moves over it. Give an example.
22. Enlist types of window events. Explain window event with an example.
23. Enlist types of mouse events. Explain mouse event with an example.
24. Enlist types of keyboard events. Explain keyboard event with an example.
25. Enlist types of form events. Explain form event with an example.
26. Write a script uses the button to trigger a function that will output "Hello World" in a p element with id="demo".
27. Write a script that shows Mouse over and Mouse out event.
28. Explain onmousedown and onmouseup events with and example.
29. Write a script for a function is triggered when the user is pressing a key in the input field.
30. Write a script when user submit the form, a function is triggered which alerts some text.
31. Enlist any four events with proper description.

## **Unit 2: PHP**

1. What is server? Enlist types of server.
2. What is web server? Explain any web server in detail.
3. What is XAMPP server?
4. Explain client-server model.
5. Enlist features of PHP.
6. Compare PHP with ASP, JSP and Perl.
7. How PHP script works?
8. Explain the use of echo statement with an example.
9. Compare print and echo statement.
10. Discuss variables in PHP.
11. Enlist the scope of variable in PHP. Explain each in detail.
12. What is the use of static keyword? Give an example.
13. Enlist data types supported by PHP.
14. Give an example of array and PHP object data type.
15. Enlist operators supported by PHP.
16. Explain comparison operators with an example.
17. State the difference between == and === operator.
18. Explain array operators with an example.
19. Explain logical operators with an example.
20. Explain string operators with an example.
21. Explain increment and decrement operators with an example.
22. Explain if-else statement with syntax and example.
23. Explain else-if ladder with syntax and example.
24. Explain nested if-else with syntax and example.
25. Explain switch statement with syntax and example.
26. Explain while loop with syntax and example.
27. Explain do-while loop with syntax and example.
28. Explain for loop with syntax and example.
29. Explain foreach loop with syntax and example.

### Unit 3: Working with Functions

1. Enlist variable functions and explain each with detail with an example.
2. Explain following string functions with syntax and example:
  - `chr()`
  - `ord()`
  - `strtolower()`
  - `strtoupper()`
  - `strlen()`
  - `ltrim()`
  - `rtrim()`
  - `trim()`
  - `substr()`
  - `strcmp()`
  - `strcasecmp()`
  - `strpos()`
  - `strrpos()`
  - `strstr()`
  - `stristr()`
  - `str_replace()`
  - `strrev()`
3. Enlist any five string functions and explain each in detail with an example.
4. Explain differences between `ltrim()`, `rtrim()` and `trim()` with an example.
5. What is difference between `strcmp()` and `strcasecmp()`? Explain with an example.
6. What is difference between `strpos()` and `strrpos()`? Explain with an example.
7. Explain difference between `substr()` and `strstr()` with an example.
8. Explain difference between `strstr()` and `stristr()` with an example.
9. Write script to convert string into lowercase.
10. Write script to check whether given string is palindrome or not.
11. Write script that replace each occurrence of `i` to `$`.
12. Write script to count the occurrence of one sub string into another string.
13. Write script to compare two strings.
14. Write script to find length of a given string.
15. Explain following string functions with syntax and example:
  - `abs()`
  - `ceil()`
  - `floor()`
  - `round()`
  - `fmod()`
  - `min()`
  - `max()`
  - `pow()`
  - `sqrt()`
  - `rand()`
16. Write a script to find minimum and maximum number from the given list.
17. Write a script that can generate 10 random numbers from 100 to 1000.
18. Write a script to find cube of a given number.
19. Explain following date functions with syntax and example:

- date()
  - getdate()
  - setdate()
  - checkdate()
  - time()
  - mktime()
20. Write script to print following output:  
Month Date, Year Hour : Minute : Second
  21. Write script to print month number, day of the month, day of the year, week of the year with reference to today.
  22. Write script to print good morning and good evening according to current time.
  23. Write script to validate the following dates:  
29-2-2020, 29-2-2015
  24. Write script to check whether current year is leap year or not.
  25. Explain following string functions with syntax and example:  
count()

list()

in\_array()

current()

next()

previous()

end()

each()

sort()

array\_merge()

array\_reverse()

## Unit 4: Advanced PHP

1. Define Array. Enlist types of array.
2. Explain Index array with an example.
3. Explain associative array with an example.
4. Explain multi dimension array with an example.
5. Which function is use to return the length of an array? Give an example.
6. Enlist sort function for array with their functionality.
7. Explain sorting functions with syntax and example:  
sort()  
rsort()  
asort()  
ksort()  
arsort()  
krsort()
8. Enlist types of functions and explain them.
9. Explain user defined function with syntax and example.
10. Why “PHP is a Loosely Typed Language”. Give an example.
11. Write a php script that shows the use of default parameter.
12. Write a php script that shows the use of single parameter.
13. Write a php script that shows the use of multiple parameter.
14. Which function is used for returns the length of a string? Give an example.
15. Which function is used for counts the number of words in a string? Give an example.
16. Which function is used for reverses a string? Give an example.
17. Which function is used for find specific text within a string? Give an example.
18. Which function is used for replaces some characters with some other characters in a string? Give an example.
19. Enlist a string manipulation functions. Explain any two with an example.
20. Explain crypt() function and write down the usage.
21. Write down the syntax of crypt() function and write the description of all the parameters.
22. Write a php script to calculate the md5 hash of the string “hello”.
23. Explain md5() function and write down the usage.
24. Enlist encryption techniques for password and explain them.
25. Enlist form handling methods and explain them.
26. Explain get method with an example.
27. Explain post method with an example.
28. Differentiate get and post method.
29. When to use get method and post method?
30. Explain \$\_REQUEST with an example along with validation.
31. What is the use of session and cookie?
32. What is the use of session\_destroy()?
33. What is the use of setcookie()?
34. How to modify cookie value? Explain with an example.
35. How can we create a session variable and terminate it?
36. Write a PHP script to check cookie is set or not.
37. Explain expire and secure parameter of cookie.
38. What is the use of session\_unset()?
39. Define cookie deletion with example.
40. How to create cookie in PHP? Explain with example.

41. How to remove cookie and session data?
42. How can we retrieve cookie value in PHP and print its value?
43. Write a PHP script to set the session variables like favcolor= "red" and favanimal= "cat".
44. Write a PHP script to set the cookie variables like name= "amit" and age= 25.
45. Write a PHP script to delete cookie after 1 day.
46. How to set cookie with name, value and expire as parameters.
47. Write a PHP script to display the number of times a web page is visited using session.
48. What is cookie? Explain the setcookie() function in PHP with meaning of all the arguments.
49. What is session? How cookie and session are related? Explain with example.
50. Explain the difference between session and cookie.
51. What is session? How do PHP manage the sessions? Give an example to store and retrieve, your age as session variable.
52. Explain cookie expiration with example.
53. Write a PHP script to display the purchase price of item using session.
54. Write a PHP script to show how a cookie can be used for authentication.
55. Write a PHP script to show how a session can be used for authentication.
56. Describe two methods for destroying a PHP session with example.
57. How to set, access and modify session variable in PHP? Explain with example.
58. Write a PHP script to check if cookies is enabled or disabled.
59. Explain browser control.

## **Unit 5: Database**

1. Enlist features of MYSQL.
2. What is MySQL? What is the use of MySQL database server?
3. What is MySQL? Enlist its features and advantages.
4. Write SQL query to delete record from database.
5. Write SQL query to insert record in database.
6. Write syntax for following MYSQL Query:
  - To create database
  - To create table
  - To insert data into table
  - To display data of table
  - To update the data of table
  - To delete the data of table
  - To delete the table
  - To add new column in table
  - To update the column definition of table
  - To delete column of a table
  - To drop the database
7. Write a PHP script for listing databases and tables name.
8. How to assign primary key to any field of table?
9. How to give auto increment to any field of table?
10. What is the difference between “Insert”, “Update” and “Modify” events?
11. Explain following function in detail:
  - mysqli\_connect()
  - mysqli\_close()
  - die()
  - mysqli\_select\_db()
  - mysqli\_query()
  - mysqli\_fetch\_row()
  - mysqli\_fetch\_field()
  - mysqli\_affected\_rows()
  - mysqli\_fetch\_assoc()
  - mysqli\_fetch\_array()
12. Write PHP script to connect with database.
13. Write PHP script to create the database "My db".
14. Write a PHP script to alter table, drop table and remove database.
15. Write PHP script to create the table Exam(En\_no, name, marks1, marks2, marks3, cgpa).

16. Write a PHP script to insert and read sales information such as sales\_no, sales\_name, address, city, pincode and state in database table named sales\_master. Output the data to a web page using PHP.
17. Write a PHP script to sort the data from table "vehicle" by name for the following attributes:  
  
name  
  
color  
  
model
18. Write PHP script to insert the record into table Supplier( id, name, address, phone\_no).
19. Write PHP script to display the content of table Product(p\_id, name, price, quantity).
20. Write PHP script to update the experience of employee to 5 whose e\_id=2 in table  
  
Employee(e\_id, name, qualification, experience).
21. Write PHP script to delete the record of person whose country="China" from table Person (p\_id,  
  
name, city, country)
22. Write PHP script to insert the record in a table "Student" and display all records for following  
  
attributes: Enrollment number, name, semester, cgpa.
23. Write PHP script to update the record given by user through html form in a table "Student".  
  
Following attributes should be updated for Enrollment number: name, semester, cgpa.
24. Create registration page which inserts the record in database. Specify the table name and  
  
attributes that you have used.]
25. Create deactivation page in which user record will be deleted for the given user id.
26. What is the purpose of phpMyAdmin?
27. Explain working of mysql\_query() with an example.
28. Write a PHP script to insert and read train information such as engine\_no, train\_arrivaltime, train\_name and train\_departuretime in database named Railway and table named train. Output the data to a webpage using PHP.



## Unit 6: Bootstrap

1. What is Bootstrap? Write down the usage of Bootstrap.
2. Which are the benefits of using Bootstrap.
3. Enlist and explain ways to include Bootstrap in website.
4. What is Bootstrap CDN? Write advantage of using Bootstrap CDN.
5. Enlist and explain container classes in Bootstrap.
6. Explain grid use in Bootstrap. Enlist Bootstrap grid classes.
7. Using grid system of Bootstrap write a program to:  
Divide a screen in three equal columns  
Divide a screen in two unequal columns
8. Explain typography in Bootstrap. Enlist any four classes used in typography with it's description.
9. Write difference between Bootstrap and Browser defaults. Give an example.
10. Write an use of following element in Bootstrap with an example,  
<small>  
<mark>
11. Write an use of following element in Bootstrap with an example,  
<abbr>  
<blockquote>  
<dl>  
<code>  
<kbd>  
<pre>
12. Explain contextual colors with their classes and example.
13. Explain contextual backgrounds with their classes and example.
14. Write a difference between table class and table-bordered class with an example.
15. Explain hover row and condensed table with an example.
16. Explain contextual classes and responsive table with an example.
17. Enlist and explain Bootstrap image shapes with an example.
18. Explain responsive image with an example.
19. Write a program to show image gallery using thumbnail class.
20. Explain responsive embeds in image with an example.
21. Enlist different button style classes and show all button style with an example.
22. Enlist different button size classes and show all button size with an example.
23. Write a program for making button active, disabled and block.
24. Write all the classes which are used for give color to text and give an example.
25. Write all the classes which are used for give background color and give an example.