College of Technology (01)
Silver Oak College of Engineering and Technology
Bachelor of Technology
Department of Information Technology (010)

Semester:	4th	Academic Year:	2023-24
Subject Name:	Web Technology with UIUX	Subject Code:	1010043228

Question bank

Unit-1 Working with HTML5
1. What is the purpose of semantic elements in HTML5
2. Name two multimedia elements supported by HTML5.
3. How do you define a required field in an HTML form with example?
4. List all HTML tag which are new and removed in HTML5.
5.   What is the significance of using placeholder attribute in form inputs with example?
6. What is the difference between a canvas and SVG element in HTML5?
7.   Discuss the benefits of using semantic elements over traditional HTML

elements.
8. List and briefly describe at least five different input types in HTML5.
9. What is Grail layout in HTML?
10. Explain HTML <FORM> element with all form attributes with example.
11. Create a basic student detail form that will take input data, including First Name, Last Name, Gender, Enrollnment ID, Designation, and Phone Number.
12. Explain the any five Git for command with syntax and example.
13. How do you create a new repository on GitHub?
14. What are branches in Git and why are they used?
15. Explain the concept of Pull and Push Requests in GitHub.

16. Define following terms:

1) Canvas
2) Figma
3) Hierarchy
4) Components
5) Prototyping

Unit-2 Working with CSS3

1. What is CSS? What are the benefits of CSS? List out the different ways to write CSS.
2. List and Explain types of CSS with Example.
3. Explain CSS box model (border, margin, padding) with neat diagram.
4. Explain Class and ID Selector in CSS with examples.
5. What is CSS Display? Explain it with example.

6. Explain the use of Media Query in CSS with example.

7. Demonstrate the use of CSS for Colors and Background

8. Define viewport, CSS, CSS selector.

9. Enlist the various attributes of font?

10. Explain Flex layout in detail with example.

11. What is grid layout? Explain grid layout in detail with example.

12. **What is the difference between CSS and CSS3?**

13. Compare Hexadecimal color codes with RGB values? What does 'a' in the RGBA mean?

14. List some of the CSS frameworks.

15. **What is Z-index?**

16. **What does margin: 40px 100px 120px 80px signify?**

17. What is responsive web design?

18. What are the limitations of CSS?

19. How is padding and margin different from one another in CSS with example?

20. How are block-level and inline elements different from one another in CSS?

21. Using HTML, CSS create a hover and focus effect for navigation items, using CSS transformations.

22. How would you select all paragraphs within a div with the class "container" using CSS selectors?

23. Compare and contrast Flexbox and Grid Layouts in CSS, highlighting their main differences and use cases.

24. Provide an example of how you would create a simple two-column layout using Flexbox.

25. Explain how CSS Grid Layout differs from traditional layout methods like floats and positioning.

26. Explain the display property in CSS and its various values.

27. Describe how you would create rounded corners for a box element using CSS.

28. Discuss the use of border images in CSS and provide an example.

29. Discuss the role of CSS frameworks like Bootstrap in facilitating responsive web design.

Unit-3 Working With JavaScript

1. What is JavaScript? What are the benefits of JavaScript?

2. Differentiate Client side scripting and Server side scripting

3. Explain pop-up boxes in JavaScript with example.

4. Explain DOM in javascript.

5. Explain Callback function in JavaScript with example

6. What is JavaScript event handling? List the major events and show use of at least one event by writing JavaScript code.

7. Demonstrate the use of onchange, onmouseover, onmouseout, onkeypress, onload, onfocus events with proper example.

8. List out JavaScript's inbuilt Objects. Explain any three JavaScript's

inbuilt Objects with proper example.
9. How user defined Objects are created in Javascript? explain with proper example.
10. Explain concept of Array in JavaScript. Also Demonstrate use of any three methods of Array with proper example.
11. Demonstrate JavaScript Form Validation with proper example.
12. Write a Java Script code to display Fibonacci Series of given number. Number should be entered by user through text box.
13. Write a JavaScript code to change the background color of page at specific time interval.
14. Write a JavaScript code which takes integer number as input and Tells whether the number is prime or not.
15. Write JavaScript code that display the text "SILVER OAK UNIVERSITY" with increasing font size in interval of 1 second in blue color. When font size reaches to 50px it should stop.
16. Difference between " == " and " === " operators.
17. Difference between var and let keyword in javascript.
18. What is NaN property in JavaScript?
19. Explain call(), apply() and, bind() methods.
20. What is DOM? Explain in detail.
21. What are JavaScript Data Types?
22. What would be the result of 3+2+"7"?
23. Write a JavaScript code for adding new elements dynamically.

24. What are all the looping structures in JavaScript? Explain in detail with example

25. What are all the control structures in JavaScript? Explain in detail with example

Unit-4 Working with jQuery and Bootstrap

1. What is jQuery? What is jQuery used for? List some Features of jQuery.

2. What are the advantages of jQuery?

3. How is jQuery different from javascript?

4. What is the difference between the methods onload() document.ready()?

5. How to iterate/loop through all p elements in jquery.

6. Explain $(document).ready() function?

7. What are the jQuery functions used to provide effects?

8. What is the use of css() method in jQuery?

9. Which jquery method is used to hide selected elements?

10. What are events in jQuery? List any five events with example.

11. Define term: Event, Event handler, Event Object.

12. What is CDN?

13. What are the selectors in jQuery? How many types of selectors in jQue

14. Explain how CSS classes can be manipulated in HTML using jQuery.

15. State some different types of jQuery Methods.

16. Explain jQuery Callback Functions

17. Explain in detail jQuery - AJAX get() and post() Methods with example.

18. What is Traversing?

19. What is Bootstrap?

20. What are the advantages of Bootstrap?

21. What is a Bootstrap Container, and how does it work?

22. What do you know about the Bootstrap Grid System?

Unit-5 Understanding PHP & MySql and MVC

1. What is PHP?

2. Explain Various Features of PHP.

3. Explain how to embed php code in HTML page?

4. What do you meant by WAMP, LAMP and XAMP?

5. What is phpinfo() Function?

6. What is variable? How to define variable in php with example.

7. What are the rules to define variable in PHP?

8. Explain all types of scope of variable?

9. Why $$ are used in PHP?

10. What is operator? List out PHP operators.
11. Explain PHP operator in detail.
12. What is the syntax for single line and multiple line comment in php.
13. Explain PHP Spaceship Operators in detail with example.
14. What is constant? How to define PHP Constants?
15. List and explain different types of array in PHP with example.
16. Discuss various array functions used in PHP.
17. How to store a data in array? And explain it.
18. Difference between ECHO and PRINT.
19. State advantages of PHP over other Languages
20. Demonstrate GET, POST and REQUEST methods of PHP.
21. Differences between GET and POST methods?
22. List conditional statements and explain in detail with example
23. List looping statements and explain in detail with example.
24. Explain foreach loop in brief with example.
25. Explain require () and include () functions in PHP.
26. Create webpage in PHP that collect user information and also display that information on other page.
27. What are the steps to access My SQL databases in PHP?
28. List MySQLi Functions used in PHP.
29. Explain CRUD (create, Read, Update, Delete) Operation with database

connectivity in PHP.
30. Write a program in HTML (Web-Page) having a form with firstname, lastname and a submit button. On clicking the button form validation should work (Use Javascript for that) and data entry should be saved in a database (PHP code needed, for insertion of data from "form" to database). Form should be styled using CSS. (Use any mode- inline, internal or external)?
31. Write the PHP code for fetching the data from a database to a webpage?
32. Describe how HTML forms can be used to collect user input and submit it to a PHP script for processing.

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