MERIDA TECH MINDS

FRONTEND TEST

Mcq (1 marks each)

- 1. What does the <meta charset="UTF-8"> tag do in HTML?
 - A. Defines the character set for the HTML document
 - B. Creates a horizontal line
 - C. Embeds a video file
 - D. Defines a list item
- 2. In HTML, which attribute is used to specify a link to an external style sheet?
 - A. link
 - B. style
 - C. href
 - D. src
- 3. What does the <iframe> tag in HTML stand for?
 - A. Inline Frame
 - B. Interactive Frame
 - C. Internal Frame
 - D. Image Frame
- 4. Which HTML5 attribute is used to validate input data on the client side?
 - A. validate
 - B. required
 - C. check
 - D. validate-input
- 5. What is the purpose of the <canvas> element in HTML5?
 - A. To create 3D graphics
 - B. To draw graphics using JavaScript
 - C. To embed audio files
 - D. To create a responsive layout
- 6. Which CSS property is used to control the spacing between lines of text?
 - A. line-spacing
 - B. text-spacing
 - C. line-height
 - D. text-height
- 7. What is the difference between margin and padding in CSS?
 - A. Margin is the space outside an element, and padding is the space inside the element
 - B. Margin is the space inside an element, and padding is the space outside the element
 - C. They are used interchangeably
 - D. Margin and padding serve the same purpose in CSS
- 8. Which CSS property is used to create rounded corners?
 - A. border-radius
 - B. corner-radius
 - C. rounded-corners
 - D. box-radius
- 9. In Bootstrap, what is the purpose of the container class?
 - A. To create a fixed-width container

- B. To create a full-width container
- C. To create a responsive container
- D. To style text

10. What is the purpose of the Bootstrap class btn-group?

- A. Groups multiple buttons together
- B. Styles a single button
- C. Creates a button with a drop-down menu
- D. Adds a border to a button

11. Which Bootstrap class is used to create a navigation bar?

- A. navbar
- B. nav-bar
- C. nav-container
- D. navigation

12. What is the purpose of the Bootstrap grid system?

- A. To create responsive layouts with rows and columns
- B. To add images to a webpage
- C. To create a modal window
- D. To style text

13. Which class is used to create a responsive, fixed-width container in Bootstrap?

- A. container
- B. container-fluid
- C. container-responsive
- D. fixed-container

14. Which class in Bootstrap is used to hide an element on specific screen sizes?

- A. hidden-xs
- B. hide-sm
- C. visible-lg
- D. invisible-md

15. What is the purpose of the Bootstrap class alert?

- A. Styles a text as an alert
- B. Creates an animated alert
- C. Creates a dismissible alert box
- D. Adds an alert sound to the webpage

16. Which class is used to create a responsive image in Bootstrap?

- A. img-responsive
- B. responsive-img
- C. image-responsive
- D. img-fluid

17. In Bootstrap, what does the modal component do?

- A. Creates a movable sidebar
- B. Creates a fixed navigation bar
- C. Displays a modal dialog box
- D. Adds a modal effect to images

18. What is the purpose of the Bootstrap class navbar-toggle?

- A. Toggles the visibility of the navigation bar
- B. Toggles the visibility of modal windows
- C. Toggles the visibility of buttons
- D. Toggles the visibility of form elements

19. How can you center an element horizontally in CSS?

- A. text-align: center;
- B. margin: auto;
- C. float: center;
- D. align: center;

20. What does the CSS property display: inline-block; do?

- A. Makes an element an inline-level block container
- B. Makes an element a block-level container
- C. Makes an element an inline-level box
- D. Makes an element a flex container

21. What is the purpose of the CSS pseudo-element ::before?

- A. Selects the first child element
- B. Selects the last child element
- C. Inserts content before the content of the selected element
- D. Inserts content after the content of the selected element

22. What does the CSS property position: relative; do?

- A. Positions an element relative to its normal position
- B. Positions an element absolutely within its containing element
- C. Removes an element from the normal flow of the document
- D. Floats an element to the right

23. What is the purpose of the CSS property flex-grow in a flex container?

- A. Specifies the initial size of a flex item
- B. Defines the ability for a flex item to grow if necessary
- C. Sets the minimum size of a flex item
- D. Controls the spacing between flex items

24. In JavaScript, what does the setTimeout() function do?

- A. Delays the execution of a function for a specified amount of time
- B. Sets a timer for repeating a function at regular intervals
- C. Measures the time taken by a function to execute
- D. Defines the timeout for AJAX requests

25. What is the purpose of the JavaScript Object.keys() method?

- A. Returns an array of a given object's property names
- B. Adds a new property to an object
- C. Checks if an object has a specific property
- D. Removes a property from an object

26. In HTML, what does the <aside> element represent?

- A. Additional information related to the main content
- B. A section of a page
- C. A block of code
- D. A navigation menu

27. What is the purpose of the HTML < figure > element?

- A. Represents a standalone piece of content
- B. Groups together a caption and embedded content, like images

- C. Defines a hyperlink
- D. Represents a navigation menu

28. Which HTML tag is used to create a hyperlink?

- A. <link>
- B. <a>
- C. <href>
- D. <hyperlink>

29. Which HTML attribute is used to define the source URL of an embedded frame?

- A. src
- B. url
- C. source
- D. link

30. What is the result of the following JavaScript expression?

- A. "5" 2
- A. 7
- B. 3
- C. "52"
- D. Error

31. What does the following JavaScript code do?

```
function greet(name = "Guest") { return "Hello, " + name + "!"; }
console.log(greet());
```

- A. Prints "Hello, Guest!"
- B. Throws an error
- C. Prints "Hello, undefined!"
- D. Prints "Hello, World!"

32. What will be the output of the following JavaScript code snippet?

33. What does the following JavaScript code snippet do?

```
let numbers = [1, 2, 3, 4, 5];
let doubled = numbers.map(num => num * 2);
console.log(doubled);
```

- A. Doubles each element in the **numbers** array and prints the result
- B. Filters out even numbers from the **numbers** array
- C. Concatenates the **numbers** array with itself
- D. Throws an error

34. What is the purpose of the typeof operator in JavaScript?

- A. Returns the data type of a variable or expression
- B. Compares two values for equality

C.	Declares a variable
D.	Converts a value to a string
35. What does the charAt() function in JavaScript do?	
A.	Returns the index of a character in a string
В.	Returns the character at a specified index in a string
C.	Counts the number of occurrences of a character in a string
	Concatenates two strings
	d is used to find the index of the first occurrence of a substring in a string?
	substring()
	indexOf()
	search()
	charAt()
• •	what is the primary purpose of an object?
	To store a list of numbers
	To represent a collection of key-value pairs To create a sequence of elements
	To perform mathematical operations
	access the value of a property named "age" in the following JavaScript object?
-	name: "John", age: 30, city: "New York" };
A. persor	
B. person.age	
C. persor	
	n.get("age")
=	nethod is used to add one or more elements to the end of an array?
	push()
	add() append()
	concat()
	nethod is used to check if at least one element in the array passes a test
=	by the provided function?
<u>-</u>	some()
	every()
	filter()
D.	find()
E.	
41. What is the re	esult of the following expression: +"42"?
A. "42'	II
B. 42	
C. NaN	I
D. Typ	eError
42. What does the	e following code snippet output?
console.log(2	+ "2" - 1);
A. "21"	

- B. 21 C. 22
 - D. NaN
- 43. What is the value of x after the following code executes?

let x = 1;

 $\chi = \chi + +;$

- A. 1
- B. 2
- C. 3
- D. undefined
- 44. What is the output of the following code snippet?

console.log("hello" instanceof String);

- A. true
- B. false
- C. TypeError
- D. undefined
- 45. What does the following code snippet do?

let
$$y = "5" - 2;$$

- A. Throws an error
- B. Concatenates the string and the number
- C. Subtracts 2 from the string, resulting in a number
- D. Converts the string to NaN

Programming questions

- 1. Write a function that takes a string as input and returns the reversed string. (3 marks)
- 2. Write a function to calculate the factorial of a given positive integer. (3 marks)
- 3. Write a function to generate the Fibonacci sequence up to a specified number of terms. (3 marks)
- 4. Write a function that takes an array of numbers and returns the sum of all the elements. (3 marks)
- 5. Write a function to check if a given string is a palindrome. (3 marks)
- 6. Write a function to find the maximum element in an array of numbers. (3 marks)

- 7. Write a function that removes duplicates from an array and returns a new array without duplicates. (3 marks)
- 8. Write a function that checks if two given strings are anagrams. (3 marks)
- 9. Create an object representing a book with properties like title, author, and publish year. Write a function to display information about the book. (3 marks)
- 10. Implement a sorting algorithm in JavaScript and use it to sort an array of numbers. (5 marks)
- 11. Write a HTML code to implement Student Registration with any 10 fields (5 marks)
- 12. Write program on below concepts: (5 marks)

Document.getElmentbyid()

Document.queryselector()

Document.queryselectorall()

Document.getElementsbytagname()

- 13. Explain any 5 window functions (5 marks)
- 14. Write a program using switch case, to perform arthimetic operations based on user input (5 marks)