**1. What is the primary function of the Domain Name System (DNS)?**

a) Translate domain names into IP addresses  
b) Translate HTML to CSS  
c) Format URLs  
d) Route traffic on the web

**2. Which HTTP method is used to submit data to be processed to a specified resource?**

a) GET  
b) POST  
c) PUT  
d) DELETE

**3.** What will be the output of the following JavaScript code?

javascript

Copy

let result = 8 + "2";

console.log(result);

A) 10  
B) "10"  
C) 82  
D) "82"

**4. What does the 'stateless nature' of HTTP refer to?**

a) The server maintains the state between requests.  
b) Each request is independent and has no memory of previous requests.  
c) The state is stored on the client-side.  
d) The server uses cookies to store user data.

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**5. Which protocol is an encrypted version of HTTP?**

a) HTTPS  
b) TCP  
c) FTP  
d) SMTP

**6. What is the purpose of a web server like Apache or IIS?**

a) Host websites and serve web pages to users  
b) Manage client requests  
c) Process client-side JavaScript  
d) Execute server-side Python code

**7.** What will be the output of the following JavaScript code?

let result = 8 + + "2";

console.log(result);

A) 10  
B) "10"  
C) 82  
D) NaN

**8. What is the purpose of the canvas element in HTML5?**

a) To create a section for embedding images  
b) To draw graphics via JavaScript  
c) To build forms  
d) To display media content

**9. Which of the following is a valid CSS selector for selecting all <p> elements within a div with the class "example"?**

a) div.p {}  
b) .example p {}  
c) div > p {}  
d) .example > p {}

**10. What does the box-sizing: border-box; CSS property do?**

a) Adds extra space to the element's padding  
b) Excludes the padding and border from the element's total width and height  
c) Increases the element's border thickness  
d) Specifies the font size for the element

**11. Which JavaScript function would you use to parse a JSON string into a JavaScript object?**

a) JSON.stringify()  
b) JSON.parse()  
c) parseJSON()  
d) JSON.decode()

**12. What does the async keyword in JavaScript do?**

a) Defines an asynchronous function that returns a promise  
b) Creates a synchronous function  
c) Runs a function in a separate thread  
d) Pauses execution until a callback is executed

**13. Which of the following is used to define a class in JavaScript (ES6)?**

a) var MyClass = function() {};  
b) class MyClass {};  
c) function MyClass() {};  
d) new MyClass();

**14. What is the purpose of the event.preventDefault() method in JavaScript?**

a) To stop the event from propagating  
b) To cancel the default action of the event  
c) To add a new event listener  
d) To change the event target

**15. Which method is used to manipulate or change HTML content in the DOM?**

a) document.createElement()  
b) document.querySelector()  
c) document.write()  
d) document.innerHTML()

**16. In which situation would you use the localStorage Web API?**

a) To store data temporarily in the browser's memory  
b) To store data persistently across browser sessions  
c) To send data to the server  
d) To store user data on the server

**17. What does the this keyword refer to in JavaScript?**

a) The global object  
b) The function where it is called  
c) The object to which the function belongs  
d) The local variable inside the function

**18. Which HTTP method is idempotent?**

a) GET  
b) POST  
c) PUT  
d) DELETE

**19. What does the npm command do in Node.js?**

a) Manages JavaScript packages  
b) Runs JavaScript code in the browser  
c) Transpiles JavaScript code to ES6  
d) Builds and serves the Node.js application

**20. What is the purpose of Express.js in Node.js?**

a) To create databases  
b) To define routes and handle HTTP requests  
c) To manage server configuration  
d) To handle asynchronous events

**21. Which method is used to create a promise in JavaScript?**

a) new Promise()  
b) Promise.resolve()  
c) Promise.all()  
d) Promise.then()

**22. Which method is used in jQuery to attach an event handler to an element?**

a) .on()  
b) .click()  
c) .bind()  
d) .trigger()

**23.** What will be the output of the following JavaScript code?

let result = 8 - "2";

console.log(result);

A) 6  
B) "6"  
C) 82  
D) NaN

**24. What is the use of the require() function in Node.js?**

a) To call a function from another module  
b) To define a new module  
c) To read files synchronously  
d) To install dependencies

**25. What is an event loop in Node.js?**

a) A loop to execute JavaScript in the browser  
b) A mechanism to handle asynchronous callbacks  
c) A method to make JavaScript synchronous  
d) A method to manage multiple threads

**26. Which method is used to send a GET request using Axios?**

a) axios.get()  
b) axios.post()  
c) axios.send()  
d) axios.request()

**27. Which of the following is NOT a valid property of the DOM element?**

a) element.innerHTML  
b) element.outerText  
c) element.create()  
d) element.classList

**28. Which of the following HTTP status codes indicate that the resource was moved permanently?**

a) 302  
b) 404  
c) 301  
d) 500

**29. Which of the following is used to make a JavaScript function execute asynchronously?**

a) setInterval()  
b) async/await  
c) setTimeout()  
d) callback()

**30. What is the role of a middleware in Express.js?**

a) It handles requests before they reach the server  
b) It allows for dynamic content rendering  
c) It filters the requests sent by the client  
d) It serves static files like images and stylesheets

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**31. What will this code output?**

let fruits = ["Apple", "Banana", "Cherry"];

fruits.forEach(function(fruit) {

console.log(fruit);

});

a) Apple, Banana, Cherry  
b) Banana, Apple, Cherry  
c) Cherry, Banana, Apple  
d) Apple, Cherry, Banana

**32. What is the purpose of this code?**

let person = {

name: "John",

age: 30,

greet: function() {

console.log("Hello, my name is " + this.name);

}

};

person.greet();

a) It prints "Hello, my name is John".  
b) It creates a new object named "person".  
c) It assigns a greet method to the person object.  
d) All of the above.

**33. What does this code do?**

let button = document.querySelector("button");

button.addEventListener("click", function() {

this.classList.toggle("active");

});

a) It adds a new class "active" to the button when clicked.  
b) It toggles the "active" class on the button when clicked.  
c) It removes the "active" class from the button when clicked.  
d) It changes the button text to "active".

**34. What will be the output of this code?**

let num1 = 5;

let num2 = 5.5;

a) true, true  
b) false, false  
c) true, false  
d) false, true

**35. What is the purpose of Number() function in the following code?**

let str = "123.45";

let num = Number(str);

console.log(num);

console.log(typeof num);

a) It converts the string to a number.  
b) It checks if the value is a number.  
c) It converts a number to a string.  
d) It rounds the number to the nearest integer.

**36. What will be the output of the following code?**

let multilineString = `

This is a string

that spans multiple lines

using template literals.`;

console.log(multilineString);

a) This is a string that spans multiple lines using template literals.  
b) This is a string that spans multiple lines using template literals.  
c) SyntaxError  
d) A single line string.

**37. What does Array.isArray() do in the following code?**

let arr = [1, 2, 3];

let obj = {name: "John"};

console.log(Array.isArray(arr)); // Output: true

console.log(Array.isArray(obj)); // Output: false

a) Checks if the argument is a string.  
b) Checks if the argument is an array.  
c) Checks if the argument is a number.  
d) Checks if the argument is an object.

**38. What does Object.keys() return in the following code?**

let person = {name: "Alice", age: 25};

let keys = Object.keys(person);

console.log(keys);

a) ["name", "age"]  
b) ["Alice", 25]  
c) {"name": "Alice", "age": 25}  
d) undefined

**39. What is the output of the following code?**

let promise = new Promise(function(resolve, reject) {

let success = true;

if (success) {

resolve("Operation was successful!");

} else {

reject("Operation failed.");

}

});

promise.then(function(message) {

console.log(message);

}).catch(function(error) {

console.log(error);

});

a) Operation was successful!  
b) Operation failed.  
c) Pending  
d) SyntaxError

**40. What does localStorage.setItem() do in the following code?**

localStorage.setItem("username", "JohnDoe");

let username = localStorage.getItem("username");

console.log(username);

a) It saves data in the session storage.  
b) It retrieves data from the local storage.  
c) It stores data in the local storage.  
d) It clears the local storage.