TECH2GLOBE

WEB DEVELOPER MCQ

1. Question: What is the primary function of a web server?

a. Handle client-side scripting

b. Manage databases

c. Serve web pages to users

d. Design user interfaces

Answer: c. Serve web pages to users

2. Question: Which protocol is commonly used for transferring files between a client and a server?

a. FTP

b. HTTP

c. TCP

d. SMTP

Answer: a. FTP (File Transfer Protocol)

3. Question: What does the term "DNS" stand for?

a. Domain Name System

b. Data Networking Service

c. Digital Naming Scheme

d. Dynamic Naming System

Answer: a. Domain Name System

4. Question: In the context of web security, what does "SSL" stand for?

a. Secure Socket Layer

b. Server-Side Language

c. Scripting and Styling Language

d. Secure System Locator

Answer: a. Secure Socket Layer

5. Question: What is the purpose of a version control system, such as Git?

a. To manage server configurations

b. To track changes in source code

c. To optimize database queries

d. To design user interfaces

Answer: b. To track changes in source code

6. Question: Which database type is known for its schema-less structure and is widely used for handling large amounts of unstructured data?

a. MySQL

b. MongoDB

c. PostgreSQL

d. SQLite

Answer: b. MongoDB

7. Question: What is the role of a Content Delivery Network (CDN) in web development?

a. Managing server-side logic

b. Storing user credentials

c. Distributing content to multiple servers globally

d. Handling client-side animations

Answer: c. Distributing content to multiple servers globally

8. Question: What is the purpose of the term "REST" in web development?

a. Representational State Transfer

b. Responsive Event System Toolkit

c. Real-time Server Technology

d. Remote Execution and Service Transmission

Answer: a. Representational State Transfer

9. Question: Which HTTP status code indicates that a resource has been permanently moved to a different location?

a. 301

b. 404

c. 500

d. 200

Answer: a. 301 Moved Permanently

10. Question: What is the purpose of the term "WebSockets"?

a. To style web pages

b. To enable real-time communication between clients and servers

c. To structure HTML documents

d. To define routing in a web application

Answer: b. To enable real-time communication between clients and servers

11. Question: What is the time complexity of a binary search algorithm for a sorted array of size n?

a. O(n)

b. O(log n)

c. O(n log n)

d. O(1)

Answer: b. O(log n)

12. Question: What is the purpose of the "break" statement in loop structures?

a. To terminate the program

b. To exit the loop and resume execution after the loop

c. To skip the current iteration and continue with the next one

d. To switch between cases in a switch statement

Answer: b. To exit the loop and resume execution after the loop

13. Question: What does the term "recursion" refer to in programming?

a. A function calling itself

b. A loop structure

c. A variable with no assigned value

d. An array with dynamic size

Answer: a. A function calling itself

14. Question: In computer science, what is the purpose of a stack data structure?

a. To store data in a first-in, first-out (FIFO) order

b. To store data in a last-in, first-out (LIFO) order

c. To efficiently search and retrieve data

d. To organize data in a two-dimensional array

Answer: b. To store data in a last-in, first-out (LIFO) order

15. Question: What is the primary advantage of using hash tables in data structures?

a. Constant time insertion and deletion

b. Efficient sorting of data

c. Sequential access to elements

d. Automatic resizing of arrays

Answer: a. Constant time insertion and deletion

16. Question: What is the purpose of the "try-catch" block in exception handling?

a. To try different algorithms

b. To handle errors and exceptions

c. To declare variables

d. To define loops

Answer: b. To handle errors and exceptions

17. Question: What is the purpose of the "merge sort" algorithm?

a. To sort elements in ascending order

b. To reverse the order of elements in an array

c. To search for an element in a sorted array

d. To create a linked list

Answer: a. To sort elements in ascending order

18. Question: What is the concept of "Big-O notation" used for in algorithm analysis?

a. To represent the best-case scenario of an algorithm

b. To measure the size of data structures

c. To analyze the time complexity of algorithms

d. To calculate the average of a set of numbers

Answer: c. To analyze the time complexity of algorithms

19. Question: What is the purpose of the "Dijkstra's algorithm" in graph theory?

a. To find the shortest path between two nodes in a graph

b. To determine if a graph is connected

c. To represent directed acyclic graphs

d. To perform depth-first traversal

Answer: a. To find the shortest path between two nodes in a graph

20. Question: What is the time complexity of the quicksort algorithm in the worst-case scenario?

a. O(n)

b. O(log n)

c. O(n^2)

d. O(n log n)

Answer: c. O(n^2)

21. Question:

var x = 5;

function foo() {

console.log(x);

var x = 10;

}

foo();

a. 5

b. 10

c. undefined

d. ReferenceError

Answer: c. undefined

22. Question:

var numbers = [1, 2, 3, 4, 5];

var result = numbers.map(function (x) {

return x \* 2;

});

console.log(result);

a. [2, 4, 6, 8, 10]

b. [1, 2, 3, 4, 5]

c. [1, 4, 9, 16, 25]

d. [2, 3, 4, 5, 6]

Answer: a. [2, 4, 6, 8, 10]

23. Question:

function bar(x, y = 2) {

return x + y;

}

var result = bar(3);

console.log(result);

a. 2

b. 3

c. 5

d. 6

Answer: c. 5

24. Question:

var text = "Hello, World!";

var result = text.split(",");

console.log(result);

a. ["Hello", " World!"]

b. ["Hello World!"]

c. ["H", "e", "l", "l", "o", " ", "W", "o", "r", "l", "d", "!"]

d. ["H", "e", "l", "l", "o", ",", " ", "W", "o", "r", "l", "d", "!"]

Answer: a. ["Hello", " World!"]

25. Question:

function factorial(n) {

if (n === 0 || n === 1) {

return 1;

} else {

return n \* factorial(n - 1);

}

}

var result = factorial(4);

console.log(result);

a. 6

b. 12

c. 24

d. 120

Answer: c. 24

26. Question:

function outer() {

var x = 10;

function inner() {

console.log(x);

}

return inner;

}

var closureFunc = outer();

closureFunc();

a. 10

b. undefined

c. ReferenceError

d. TypeError

Answer: a. 10

27. Question:

var a = 5;

function foo() {

var a = 10;

bar();

}

function bar() {

console.log(a);

}

foo();

a. 5

b. 10

c. undefined

d. ReferenceError

Answer: a. 5

28. Question:

var counter = (function() {

var count = 0;

return {

increment: function() {

count++;

},

decrement: function() {

count--;

},

getValue: function() {

return count;

}

};

})();

counter.increment();

counter.increment();

console.log(counter.getValue());

a. 1

b. 2

c. 3

d. 0

Answer: b. 2

29. Question:

function add(a, b) {

return a + b;

}

function multiply(a, b) {

return a \* b;

}

function calculate(operation, a, b) {

return operation(a, b);

}

var result = calculate(add, 5, calculate(multiply, 2, 3));

console.log(result);

a. 15

b. 25

c. 30

d. 11

Answer: d. 11

30. Question:

function delayExecution(callback) {

setTimeout(function() {

console.log("Delayed execution");

callback();

}, 1000);

}

function printMessage() {

console.log("Hello, World!");

}

delayExecution(printMessage);

a. "Hello, World!"

b. "Delayed execution"

c. "Delayed execution" followed by "Hello, World!"

d. "Hello, World!" followed by "Delayed execution"

Answer: c. "Delayed execution" followed by "Hello, World!"