1. **Which of the following is a characteristic of the TCP protocol?**

* A) Connectionless communication
* B) No error checking
* C) Guaranteed delivery of data
* D) Faster data transfer

**Answer:** C) Guaranteed delivery of data

1. **What is the primary function of an IP address in a network?**

* A) To provide physical connectivity between devices
* B) To uniquely identify a device on a network
* C) To encrypt data being transmitted over the network
* D) To manage network bandwidth usage

**Answer:** B) To uniquely identify a device on a network

1. **Which of the following is the correct HTML element for the largest heading?**

* A) <h1>
* B) <head>
* C) <h6>
* D) <heading>

**Answer:** A) <h1>

HTML, CSS, JS

1. **What is the purpose of the viewport meta tag in responsive web design?**

* A) To slice the elements of the content
* B) To define the visible area of the web page
* C) To select DOM content
* D) To control the background color

**Answer:** B) To define the visible area of the web page

1. **What is the purpose of the box-sizing property in CSS?**

* A) To define the box model for an element
* B) To set the size of text within a box
* C) To add a border around the box
* D) To change the display type of an element

Answer: A) To define the box model for an element

1. **Which attribute of the <a> tag specifies the URL of the page the link goes to?**

* A) href
* B) src
* C) link
* D) target

**Answer:** A) href

1. **What property specifies the sequence of keyframes in a CSS animation?**

* A) animation-frames
* B) animation-sequence
* C) @keyframes
* D) animation-key

**Answer:** C) @keyframes

1. **Which function is used to read user input as text from a dialog box in JavaScript?**

* A) input()
* B) prompt()
* C) confirm()
* D) alert()

**Answer:** B) prompt()

1. **Which JavaScript method extracts a substring from a string?**

* A) slice()
* B) substring()
* C) substr()
* D) All of the above

**Answer:** D) All of the above

1. **What does the innerHTML property of a DOM element represent?**

* A) The CSS styles of the element
* B) The attributes of the element
* C) The text and HTML content within the element
* D) The ID of the element

**Answer:** C) The text and HTML content within the element

1. **How can you attach an event handler to an element using JavaScript?**

* A) element.addEventListener('event', function)
* B) element.on('event', function)
* C) element.attachEvent('event', function)
* D) element.addEvent('event', function)

**Answer:** A) element.addEventListener('event', function)

1. **Which of the following is true about the === operator?**

* A) It performs type casting before comparing values.
* B) It compares both the type and the value of two variables.
* C) It only compares the value of two variables.
* D) It returns true if the variables are the same object.

**Answer:** B) It compares both the type and the value of two variables.

1. **What is hoisting in JavaScript?**

* A) The process of moving variables to the end of their scope
* B) The process of moving variable declarations to the top of their scope
* C) The process of executing code before variable declarations
* D) The process of declaring variables inside functions

**Answer:** B) The process of moving variable declarations to the top of their scope

1. **How can you make a column span 6 out of 12 columns only on small devices using Bootstrap?**

* A) col-sm-6
* B) col-md-6
* C) col-lg-6
* D) col-xs-6

**Answer:** A) col-sm-6

1. **How do you clear an interval that was set using setInterval?**

* A) clearTimeout()
* B) clearInterval()
* C) cancelInterval()
* D) stopInterval()

**Answer:** B) clearInterval()

1. **How do you embed an expression within a template literal?**

* A) ${expression}
* B) [expression]
* C) {{expression}}
* D) (expression)
* **Answer:** A) ${expression}

1. **What is the correct way to create a numbered list in HTML?**

* A) <ul>
* B) <ol>
* C) <li>
* D) <dl>

**Answer:** B) <ol>

1. **How do you call a function named myFunction in JavaScript?**

* A) call myFunction()
* B) myFunction()
* C) call function myFunction()
* D) call myFunction;

**Answer:** B) myFunction()

19. **What is the result of 2 + '2' in JavaScript?**

* A) 4
* B) 22
* C) NaN
* D) undefined

**Answer:** B) 22

**20.What is the purpose of the querySelector method in JavaScript?**

* A) To select an element by its class name
* B) To select an element by its ID
* C) To select the first element that matches a specified CSS selector
* D) To select all elements that match a specified CSS selector

**Answer:** C) To select the first element that matches a specified CSS selector