# **Exercise**

#### **Multiple Choice Questions – Answers with Explanations**

1. Which of the following tag is not a correct HTML tag?

✓ Answer: (d) <footer>

**Explanation:** Older versions of HTML (like HTML4) did not support <footer>. It was introduced in HTML5. If you're using older HTML versions, it's not valid.

2. What does CSS stand for?

**⊘** Answer: (a) Cascading Style Sheets

**Explanation:** CSS is used to style and design web pages, such as setting colors, fonts, layouts, etc.

3. Which of the following tag is used to create a hyperlink in HTML?

**Explanation:** The <a> tag (anchor) is used to create clickable links.

4. Which property is used to change the background color in CSS?

**⊘** Answer: (b) background-color

**Explanation:** The background-color property sets the background color of an element.

5. Which HTML attribute is used to define inline styles?

✓ Answer: (b) style

**Explanation:** The style attribute is used inside HTML tags to apply CSS directly.

6. Which of the following is the correct syntax for a CSS rule?

✓ Answer: (a) selector {property: value;}

**Explanation:** This is the standard syntax used in CSS. Example: p {color: red;}

7. In JavaScript, which markup is used for comments?

**Explanation:** // is used for single-line comments in JavaScript. For multi-line, /\* \*/ is used.

8. How do you include JavaScript in an HTML document?

Answer: (a) <script src="script.js"></script>

**Explanation:** This includes an external JavaScript file in an HTML document.

9. Which HTML tag is used to create an unordered list?

**Explanation:** is used for unordered (bulleted) lists.

10. Which tag is used to display a horizontal line in HTML?

✓ Answer: (b) <hr>

**Explanation:** <a href="https://example.com/example.co

#### **Short Questions – Answers**

1. Purpose of <head> tag:

It contains metadata like title, links to CSS/JS, and other info not visible on the page.

2. Difference between ordered and unordered list:

Ordered list () uses numbers. Unordered list () uses bullets.

3. How to add a comment in CSS:

/\* This is a comment \*/

- 4. Ways to apply CSS to HTML:
- Inline CSS
- Internal CSS (<style> tag in <head>)
- External CSS (linked .css file)

#### 5. Including JavaScript in HTML:

Use <script> tag like: <script src="script.js"></script>

6. Hyperlink syntax in HTML:

<a href="https://example.com">Click here</a>

7. Function of <div> tag:

It is a container used to group HTML elements and apply CSS styles to them.

8. Linking external CSS file:

<link rel="stylesheet" href="style.css"> (inside <head>)

9. Use of tag:

Used to display tabular data in rows and columns.

10. Box model in CSS:

It describes how elements are displayed:

Content → Padding → Border → Margin

# **Long Questions – Answers**

- 1. Differences: HTML, CSS, JavaScript:
- **HTML** creates the structure (headings, images, paragraphs).
- CSS styles the layout (colors, fonts, size).
- JavaScript adds interactivity (like buttons, sliders, etc.).
- 2. Setting up development environment:
- Text Editor: VS Code, Sublime Text
- Browser: Chrome, Firefox
- Software: Web server (optional)
- **Tools:** Developer tools (Inspect element), extensions (Live Server)

#### 3. Basic HTML Page Example:

```
<!DOCTYPE html>
<html>
<head>
<title>My Web Page</title>
</head>
<body>
<h1>Welcome</h1>
This is a paragraph.
<img src="image.jpg" alt="Example Image">
<a href="https://example.com">Visit Site</a>
</body>
</html>
```

#### 4. Styling a table using CSS:

```
<style>
table {
 border: 2px solid black;
 border-collapse: collapse;
 width: 50%;
}
th, td {
 border: 1px solid gray;
 padding: 10px;
 text-align: left;
</style>
Name
 Age
Ali
 15
```

#### 5. Different CSS Selectors:

- **Element Selector:** p {color: red;}
- Class Selector: .box {padding: 10px;}
- ID Selector: #main {margin: 0;}
- Group Selector: h1, h2 {font-size: 20px;}
- Universal Selector: \* {box-sizing: border-box;}

## 6. Creating Responsive Web Page:

Use **media queries** and flexible units.

Example:

```
@media (max-width: 600px) {
  body {
   background-color: lightblue;
  }
}
```

#### 7. JavaScript function for background color change:

```
<!DOCTYPE html>
<html>
<head>
<script>
function changeColor() {
   document.body.style.backgroundColor = "yellow";
}
</script>
</head>
<body>
<button onclick="changeColor()">Change Background</button>
</body>
</html>
```

**Explanation:** When the button is clicked, the changeColor() function changes the background color of the page to yellow.

### 8. Animations and Transitions using CSS:

• Transitions Example:

```
button {
  transition: background-color 0.5s ease;
}
button:hover {
  background-color: red;
}
```

#### Animations Example:

```
@keyframes move {
  from {left: 0;}
  to {left: 100px;}
}
div {
  position: relative;
  animation: move 2s infinite;
}
```