**Basic Front-End Development Questions:**

**1. What is front-end development?**

**Answer:**  
Front-end development refers to building the part of a website that users interact with. It involves technologies like **HTML** (for structure), **CSS** (for styling and layout), and **JavaScript** (for interactivity). Front-end developers focus on **UI/UX** and website responsiveness.

**2. What are the main technologies used in front-end development?**

**Answer:**

* **HTML**: Defines the structure of the webpage.
* **CSS**: Handles the styling and layout.
* **JavaScript**: Adds interactivity.
* **Frameworks & Libraries**: React.js, Vue.js, Bootstrap, Tailwind CSS.

**3. How does a website work?**

**Answer:**

* A web browser requests a webpage from a server.
* The server responds with HTML, CSS, and JavaScript files.
* The browser renders the files into a visible website.

**Web Browsers & Development Setup Questions:**

**4. What is the role of a web browser in front-end development?**

**Answer:**  
A web browser (Chrome, Edge, Firefox, Safari) reads HTML documents and renders them as web pages. It does not display the HTML tags but interprets them to show the content correctly.

**5. What are the essential tools for setting up a front-end development environment?**

**Answer:**

* **Code Editor**: VS Code
* **Extensions**: Live Server, Prettier
* **Browser Tools**: Chrome DevTools (Inspect, Console)

**HTML Questions:**

**6. What is HTML, and why is it important?**

**Answer:**  
HTML (HyperText Markup Language) is the backbone of a webpage. It provides the structure for content using elements and tags.

**7. Can you explain the basic structure of an HTML document?**

**Answer:**

<!DOCTYPE html>

<html>

<head>

<title>My First Page</title>

</head>

<body>

<h1>Hello, World!</h1>

</body>

</html>

**8. What are some common HTML tags?**

**Answer:**

* **Headings**: <h1> to <h6>
* **Paragraphs**: <p>
* **Links**: <a href="URL">
* **Images**: <img src="image.jpg" alt="Description">
* **Lists**: <ul>, <ol>, <li>
* **Break Line**: <br>
* **Horizontal Rule**: <hr>

**9. What is the difference between HTML elements and tags?**

**Answer:**

* **HTML tags**: The opening and closing parts of an element, e.g., <h1>, </h1>.
* **HTML elements**: Everything from the opening tag to the closing tag, including the content.  
  Example: <h1>My First Heading</h1>

**10. What are empty elements in HTML?**

**Answer:**  
Empty elements are tags that do not have a closing tag or content.  
Examples: <br>, <img>, <hr>

**HTML Formatting & Attributes Questions:**

**11. What are HTML formatting elements?**

**Answer:**

* **Bold**: <b>
* **Important text**: <strong>
* **Italic**: <i>
* **Emphasized text**: <em>
* **Marked text**: <mark>
* **Deleted text**: <del>
* **Inserted text**: <ins>
* **Subscript**: <sub>
* **Superscript**: <sup>

**12. What are HTML attributes?**

**Answer:**  
Attributes provide additional information about elements. They are written inside the opening tag in **name="value"** format.  
Example:

<a href="https://www.google.com" target="\_blank">Google</a>

**Common Attributes:**

* href (for links)
* src (for images)
* alt (for image description)
* width, height (for image size)
* style (for inline CSS)
* title (for tooltips)

**13. What is the difference between absolute and relative URLs?**

**Answer:**

* **Absolute URL**: Includes the full web address.  
  Example: <a href="https://www.google.com">Google</a>
* **Relative URL**: Refers to a location relative to the current page.  
  Example: <a href="/css/default.asp">CSS Tutorial</a>

**HTML Links & Quotation Questions:**

**14. How do you create links in HTML?**

**Answer:**

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

**15. What is the target attribute in links?**

**Answer:**  
The target attribute specifies where to open the link.

* \_self (default): Opens in the same tab.
* \_blank: Opens in a new tab.
* \_parent: Opens in the parent frame.
* \_top: Opens in the full body window.

**16. What are quotation and citation elements in HTML?**

**Answer:**

* **Blockquote** (<blockquote>) for long quotations.
* **Short quotes** (<q>) for inline quotes.
* **Abbreviation** (<abbr>) for abbreviations.
* **Address** (<address>) for contact details.
* **Cite** (<cite>) for citing a work.
* **BDO** (<bdo>) for text direction override.

**17. What is an HTML comment, and how do you write it?**

**Answer:**  
HTML comments are used to add notes in the code that are not displayed in the browser.

<!-- This is a comment -->

**Practical Questions:**

**18. Can you write a simple HTML page with a heading, paragraph, image, and a link?**

**Answer:**

<!DOCTYPE html>

<html>

<head>

<title>My First Webpage</title>

</head>

<body>

<h1>Welcome to My Website</h1>

<p>This is a simple paragraph.</p>

<img src="image.jpg" alt="A sample image">

<a href="https://www.example.com">Click here to visit Example</a>

</body>

</html>