① What is HTML and what is its purpose?

Sol: HTML is a hyper Text Markup language. is the standard language used to create and design web pages.

· Its primary purpose is to structure content on the web by defining elements like headings, paragraphs, title. links. images and other multimedia.

Key functions of HTML include:

① Structuring content

② Creating links

③ Embedding Media

④ Defining Metadata

⑤ Form controls.

② How do you include comments in HTML

Sol: `<!-- text -->`

③ Explain the difference b/w `<div>` & `<span>` tags

Sol: "div" tag is a block level element. This means that it starts on a new line and takes up the full width available.

· It is commonly used to group larger sections of HTML content, such as blocks of text, images

"Span" Tag is an inline element. This means that it does not start on a new line only takes up as much width as necessary.

· It is commonly used to group smaller pieces of content within a block level element, such as a few words or phrases within a paragraph.

④ How do you create a hyperlink in HTML?

① Hyperlink is created by using a anchor tag.

```
<a href = "URL" > Text </a>
```

⑤ What is the difference b/w <ol> and <ul> elements

· is used for ordered list
· The order of the items matters
· List is assigned in number

· is used for unordered list
· The order of the items does not matters
· List is assigned in bullet points.

⑥ How do you embed an image in HTML

```
<img src ="image_url"    alt "description>
```
Src:- Specifies the path to image file
alt :- Provides alternative text for the image.

⑦ What is the difference b/w strong and em Tags

→ Strong tag tells that this is more important than the surrounding text.

- <em> is generally used to indicate the stress of a word within a sentence.

⑧ How do you create a table in HTML

```
<table>
    <thead>
        <tr>
            <th>        <th>
            <th>        <th>
        </tr>
    </thead>
    <tbody>
        <tr>
            <td>        <td>
            <td>        <td>
        </tr>
    </tbody>
</table>
```

(9) What is the purpose of the <form> tag in HTML & how do you create a form

Sol. Form is a container, which helps to interact with user and websites in a structured manner
· It helps to store the user data

```
<form action= "  ">
    <input type= "text">
</form>
```

(10) How do you add CSS styles to HTML elements
· By · Inline styling
       · Internal styling
       · External styling

(11) What is the role of the alt attribute in <img> tags?
- When the image address wont load properly alt attribute will helps to display the text in the image place of image.

(12) How do you create a numbered list with customer no styles in HTML?

```
<ol type= "1"> for decimal list
<ol type= "A"> for upper case letters
```

<ol type = "a"> for lower case letters

    <ol type = "i"> lower case Roman Numbers

(13) What is responsible responsive web design & why is it important

Sol Responsive Design is about creating a web page that look good on all devices.

(14) What are HTML attributes.

Sol HTML attributes is used to provide a additional information of an element.
- Attributes are always placed inside opening tags.

(15) How do you add attributes to an HTML elements.

Sol Attributes are always placed inside the opening tags.
Name = value, alt -

(16) What is the difference b/w class & id attribute.

sol - Used to apply styles or behaviour to multiple elements.
- Used to apply a unique identifier to a single element.

⑰ Explain the role of the href attribute in HTML particularly in the context of links & anchor.

Sol. href → hyper reference link
It will provide a link to another page it is used in a anchor tag.

```
<a href: "  ">   </a>
```

⑱ How do you add alternative text to an image.

Sol. By using alt attribute we can add an alternative text to an image.

```
<image src = "  "    alt = "  ">
```

⑲ What is the purpose of the target attribute in HTML links & what are its possible values.

Sol. It is used to specify where the linked document will open

① target - self   - Open in same window
② target - blank   - Open in different window

⑳ How do you use src attribute to embed an external resource, such as an image. or video in HTML.

Sol. By <img src: "file name" >

(21) Explain HTML Document structure?

```
<! DOCTYPE html>
<html lang = "en">
  <head>
    <meta charset = "UTF=8">
  </head>
  <body>

  </body>
</html>
```

* DOCTYPE :- It tells the type of document we are using & the version of html.

* lang = en . attribute is used to specify the language of the content within an element.

* Meta charset : It specifies the character encoding of the document.

* body :- It contains the content of the web page tags, styling etc.,