

# HTML TEST

## SECTION 1:

**A) Briefly describe the role of HTML, CSS and JavaScript in modern web development.**

è **HTML**: This is used to make the basic structure of the website, like when you are making the frame of a house.

è **CSS**: This is used to give the frame/structure a design just like adding paint to the structure of your house

è **JavaScript**: Java script is used to make the webpage now interactable, just like adding lights and appliances to your house.

**B) Analyze how these three interact during page rendering in a browser.**

à HTML is the basic **structure** of a web page, like the **frame** of a house. CSS makes **it look nice** by adding colors, layout, and style, like paint and furniture. JavaScript makes it do things, like opening a door when you click it. The browser puts them all together: HTML builds it, CSS decorates it, and JavaScript makes it move.

## SECTION 2:

**Analyze the difference between semantic HTML and non-semantic HTML.**

à Semantic html is the use of html tags that clearly define the meaning or purpose of the content they contain while non-semantic html is the use of html tags that don't provide meaning about the content they contain and are mostly used for layout and styling.

**Why is semantic structure crucial for accessibility and SEO? Give at least two examples of semantic tags and their correct usage.**

ait provides a clear, logical outline. Like screen readers to interpret, navigate, and describe content accurately

## **SECTION 3:**

### **1. Discuss the key differences between Flexbox and Grid.**

è **Flexbox** is one-dimensional layout model in **CSS** for arranging items with a container while **Grid** is a powerful **CSS** module that enables devs to create complex two-dimensional layouts on a webpage

### **2. Define each component (content, padding, border, margin).**

**Content:** The actual stuff inside the box like text, images, or buttons.

**Padding:** Space between the content and the border it pushes the content inward.

**Border:** The line around the padding it outlines the box and can be styled.

**Margin:** Space outside the border it separates the box from other elements nearby.

### **3. Compare and contrast the three main methods of applying CSS (inline, internal, and external).**

à **Inline:** inside the HTML tag (not reusable)

**Internal:** in a tag in the HTML head

**External:** in a separate .css file (best for big projects)

**Most maintainable: External CSS** — keeps code clean and reusable.

