HTML Basics - Theory Assignment Answers

Q1) Define HTML. What is the purpose of HTML in web development?

HTML stands for HyperText Markup Language. It is used to create webpages and display content in a browser. The purpose of HTML is to structure text, images, links, and other content so that users can view them easily on the internet.

Q2) Explain the basic structure of an HTML document. Identify the mandatory tags and their purposes.

A simple HTML document has the following structure:
1. <!DOCTYPE html> = Tells the browser this is an HTML5 document.
2. <html> = The root element of the page.
3. <head> =Contains information like title and metadata.
4. <title> = Shows the title of the page in the browser tab.
5. <body> = Contains the main content of the webpage.

Q3) What is the difference between block-level elements and inline elements in HTML? Give examples.

Block-level elements:
- Start from a new line.
- Take full width of the page.
Examples: <p>, <div>, <h1>.

Inline elements:
- Do not start from a new line.
- Only take the space needed.
Examples: <a>, <span>, <img>.

Q4) Discuss the role of semantic HTML. Why is it important for accessibility and SEO? Provide examples.

Semantic HTML means using tags that describe the meaning of the content. It makes the code easier to understand for both humans and computers.

Importance:
- Accessibility: Helps screen readers understand the page better.
- SEO: Search engines can rank pages more effectively.

Examples: <header>, <footer>, <article>, <section>, <nav>.