**Q: 1**

You are required to **design and develop an interactive webpage** that explains **"How the Internet Works"** using **HTML & CSS**. This page should include topics like **Client & Server, Web Development, User Interface (UI), HTML Structure, Text Formatting, Lists, Tables, Forms, and CSS Styling**.

**Requirements:**

**1. Webpage Structure & Semantics (HTML)**

* Use **Meta Tags** (<meta> for description, charset, and viewport settings).
* Structure the page using **Semantic Elements**:
  + <header>: Title and navigation.
  + <section>: Main content explaining **Client & Server communication**.
  + <article>: The **Journey of a Web Request** (from browser to server).
  + <aside>: Quick facts and tips.
  + <footer>: Author credits and additional learning resources.

**2. Content Elements**

* Use **Headings (h1h6)** for different sections.
* Include **Paragraphs (p)** for detailed explanations.
* Apply **Bold (b), Italic (i), and Underline (u)** for emphasis.
* Use **Subscript (sub) and Superscript (sup)** where necessary.
* Add **Horizontal Rules (hr)** and **Line Breaks (br)** to structure content.

**3. Lists & Tables**

* Use an **Ordered List (<ol>)** to explain the steps of how a web request works.
* Create an **Unordered List (<ul>)** of key terms (e.g., HTTP, DNS, TCP/IP).
* Include a **Table** that compares:
  + **Client vs Server** (Columns: Function, Client, Server).
  + **Static vs Dynamic Websites** (Columns: Feature, Static, Dynamic).

**4. Images, Videos, and Maps**

* Add an **illustrative diagram** (<img>) showing **how the client and server interact**.
* Embed a **YouTube video** explaining web communication.
* Integrate a **Google Map** showing the location of major internet data centers.

**5. Forms & Input Elements**

* Add an **Interactive Quiz Form** with:
  + radio buttons for multiple-choice questions (e.g., "What is a client?").
  + A text input field for user feedback.
  + A submit button.

**6. Styling & Aesthetics (CSS)**

* Use **Inline, Internal, and External CSS**.
* Apply **Font Styling** with external fonts.
* Add a **Gradient Background** for styling.
* Use **Icons** to represent different concepts.
* Utilize **CSS Selectors** (, element, .class, #id).

**7. Advanced CSS Techniques**

* Use **Combinators** (descendant, sibling, adjacent sibling) for styling relationships.
* Apply **Pseudo-classes (:hover, :focus)** for interactive elements.
* Implement **Pseudo-elements (::before, ::after)** for styling enhancements.

**Submission Requirements**

1. Submit **index.html** and **styles.css** files in a github repository.
2. Ensure proper **structure, styling, and responsiveness**.
3. The webpage should be **interactive, informative, and engaging**.