

# HTML & CSS Scenario-Based Test

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August 18, 2025

**Duration: 2 Hours**

**Total Marks: 100**

## **Instructions:**

- Read the scenario carefully before attempting
  - Create all files as specified in the requirements
  - Upload your completed work to GitHub repository
  - Provide GitHub repository link at the end
  - Code should be well-commented and properly structured
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## **Scenario Question: Personal Portfolio Website (100 Marks)**

**Background:** You are a freelance web developer who needs to create a personal portfolio website to showcase your skills to potential clients. The website should demonstrate your knowledge of HTML and CSS while presenting your professional information.

### **Project Requirements:**

## **Part A: HTML Structure and Content (60 Marks)**

### **1. Document Structure (8 Marks)**

- Create a complete HTML5 document with proper DOCTYPE
- Include appropriate meta tags (charset, viewport, description, keywords)
- Use semantic HTML5 elements (header, nav, main, section, article, aside, footer)
- Add a meaningful title for the page

### **2. Header Section with Navigation (10 Marks)**

- Create proper heading hierarchy (h1-h6) with:
  - h1: Your name as main heading

- h2: "Web Developer & Designer" as subtitle
- h3-h6: Use appropriately in other sections
- Design a navigation menu with links to different sections:
  - Home, About, Skills, Projects, Contact
  - Use internal anchor links to navigate within the page

### **3. About Section with Text Content (8 Marks)**

- Write 3-4 paragraphs about yourself (can be fictional)
- Use semantic text formatting tags: `<strong>`, `<em>`, `<mark>`, `<small>`
- Include your profile image with proper attributes (src, alt, width, height)
- Add a link to your resume (external link opening in new tab)

### **4. Skills Section with Lists (8 Marks)**

- Create an unordered list of technical skills (HTML, CSS, JavaScript, etc.)
- Create an ordered list of your development process steps
- Include a nested list showing:
  - Frontend skills with sub-categories
  - Backend skills with sub-categories

### **5. Projects Section with Multimedia (12 Marks)**

- Create a table showing your projects with columns:
  - Project Name, Technology Used, Completion Date, Status
  - Include at least 4 projects with realistic data
  - Use proper table headers and caption
  - Apply basic styling to the table
- Add a project showcase with:
  - One embedded video (demo of your work) with controls
  - Background audio element (optional, muted by default)
  - Project screenshots using responsive images with srcset

### **6. Contact Section with Form (14 Marks)**

- Design a comprehensive contact form including:
  - Text input: Full Name (required)
  - Email input: Email Address (required, with validation)
  - Tel input: Phone Number

- Select dropdown: Project Type (Web Design, Web Development, SEO, Other)
- Radio buttons: Budget Range (\$500-1000, \$1000-5000, \$5000+)
- Checkboxes: Services needed (can select multiple)
- Textarea: Project Description (placeholder text required)
- Range input: Project Timeline (1-12 months)
- Date input: Preferred Start Date
- Use proper labels associated with form elements
- Group related form elements using fieldset and legend
- Include Submit and Reset buttons
- Add form validation attributes where appropriate

## Part B: CSS Styling and Flexbox Layout (40 Marks)

### 7. Basic Styling and Layout (15 Marks)

- Create an external CSS file and link it properly
- Style your webpage with:
  - Attractive color scheme (use CSS variables for colors)
  - Professional typography (font families, sizes, spacing)
  - Consistent spacing and padding throughout
  - Styled table with borders, hover effects, and alternating row colors
  - Form styling with focus states and hover effects

### 8. Flexbox Implementation (25 Marks)

- **Navigation Bar (8 marks):** Use flexbox to create a responsive navigation
  - Logo/name on the left, menu items on the right
  - Evenly distribute menu items
  - Stack vertically on mobile (max-width: 768px)
- **About Section Layout (8 marks):** Use flexbox for about section
  - Profile image on one side, text content on the other
  - Make it responsive (stack vertically on smaller screens)
  - Center align items appropriately
- **Skills Section (9 marks):** Create a skills grid using flexbox
  - Display skills as cards in a flexible grid
  - Each skill card should have equal height
  - Wrap to new lines as needed
  - Add subtle animations or transitions

**Deliverables:**

1. **index.html** - Main HTML file
2. **styles.css** - External CSS file
3. **README.md** - Project documentation including:
  - Project description
  - Technologies used
  - File structure explanation
  - How to run/view the project

**Bonus Points (10 Extra Marks):**

- Add CSS animations or transitions for interactive elements
  - Implement a mobile-first responsive design approach
  - Include a dark/light theme toggle using CSS
  - Add accessibility features (ARIA labels, keyboard navigation)
  - Use CSS Grid in combination with Flexbox for complex layouts
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**GitHub Submission Requirements**

- Create repository: "portfolio-website-[your-name]"
  - Upload all project files
  - Ensure repository is public
  - Include meaningful commit messages
  - **GitHub Repository Link:** \_\_\_\_\_
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**Assessment Criteria:**

Code Quality (20%) — Functionality (30%) — Design & Layout (25%) —  
Responsiveness (25%)

*Best of luck with your portfolio creation!*