

Unit 1: HTML (4 & 5) [30 Marks]

Question 1: (10 Marks)

Explain the differences between HTML4 and HTML5. Highlight at least 5 key differences with examples of how HTML5 improves upon HTML4.

Question 2: (10 Marks)

Define and explain the following HTML5 elements:

- `<section>`
- `<article>`
- `<aside>`
- `<header>`
- `<footer>`

Provide appropriate use cases for each element with an example.

Question 3: (10 Marks)

Explain table, p, div and span tag in html. Develop one example which include all tags.

Unit 2: CSS [35 Marks]

Question 4: (15 Marks)

Explain the CSS box model in detail. What are the properties included in the box model? Illustrate with a diagram and an example of how margin, border, padding, and content can affect an element's layout.

Question 5: (10 Marks)

Describe the differences between inline, block, and inline-block elements in CSS. Provide examples of each and explain how they affect the layout of a webpage.

Question 6: (10 Marks)

Explain CSS Flexbox. What are the key properties used in Flexbox layout? Create an example layout using Flexbox to display three items in a row, with equal spacing between them.

Unit 3: Bootstrap [35 Marks]**Question 7: (15 Marks)**

What is Bootstrap, and why is it widely used in web development? Discuss the grid system in Bootstrap and explain how it helps in creating responsive web layouts. Create an example layout using Bootstrap's grid system with a 12-column structure.

Question 8: (10 Marks)

Explain the concept of Bootstrap components. Describe at least three commonly used components (e.g., buttons, cards, navigation bar) and their usage. Include code snippets for each component.

Question 9: (10 Marks)

Bootstrap offers various formatting related classes to simplify styling. Discuss the importance of utility classes in Bootstrap. Provide examples of at least classes and demonstrate their use in a webpage.

Instructions:

1. All questions are compulsory.
2. Use diagrams wherever necessary.
3. Ensure proper formatting of HTML/CSS code in your answers.
4. You are allowed to use examples in the code to demonstrate your answers.