FACULTY OF SCIENCE || DEPARTMENT OF COMPUTER APPLICATIONS || MCA

23MCACC101 || RESPONSIVE WEB DESIGN AND TYPESCRIPT

QUESTION BANK

CHAPTER 1: INTRODUCTION TO WEB & HTML 5

1. What is IP?
2. Explain the client-server model in the context of the internet.
3. Define and explain the Domain Name System (DNS). How does it work, and why is it essential for web communication?
4. Discuss the significance of Uniform Resource Locator (URL) in web development. Provide examples of different URL structures.
5. What is Hypertext Transfer Protocol (HTTP)? Explain its role in facilitating communication between clients and servers on the web.
6. Describe the new structural elements introduced in HTML 5.
7. Demonstrate the use of the figure and figcaption elements in HTML 5. How can these elements enhance the presentation of images and multimedia content?
8. Explain the purpose of the address element in HTML 5. Provide an example of how it can be used for displaying contact information.
9. How can the mark element be used to highlight text in HTML 5? Provide examples of situations where the mark element is useful.
10. Discuss the concept of wrapping links around elements in HTML 5. Why is this practice beneficial, and provide an example of its implementation.

CHAPTER 2: INTRODUCTION TO CSS AND WEB FORMS

11. Explain CSS and its Types.
12. Create a CSS selector using a property and value. Explain how this selector can be applied to HTML elements for styling.
13. Apply borders to a box element in CSS. Set padding and margin to the same box element. Provide an example to illustrate these styling techniques.
14. Explain the concept of applying position to a box element in CSS. Provide examples of different position values and their effects on layout.

15. Describe how floating elements can be used in CSS for layout purposes. Provide an example of a layout where floating elements are employed.

16. Discuss how a website can be enhanced with transformations and transitions in CSS. Provide examples of transformations and transitions and their impact on user experience.

17. Create a simple CSS animation. Explain the key components of the animation, including properties and values used.

18. Develop an HTML form to collect contact information. Include appropriate input types and labels. Ensure the form is accessible and user-friendly.

19. Style various input fields in a form using CSS. Include examples of styling text boxes, bordered inputs, colored inputs, focused inputs, and inputs with icons.

20. Discuss the styling of text areas and select menus in CSS. Provide sample CSS code for both elements.

21. Create a creative and responsive webpage using CSS3 features and media queries. Describe your design choices and the CSS techniques used.