

Exam Date & Time: 03-Jun-2023 (02:30 PM - 05:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

VI SEMESTER B.TECH END SEMESTER EXAMINATIONS, MAY 2023

WEB PROGRAMMING [CSE 4310]

Marks: 50

Duration: 180 mins.

A

Answer all the questions.

- 1) Give a schematic illustration of web browsers and web servers clearly depicting web requests and file systems. Write significance of each of these components. (4)
 - A)
 - B) Write attribute specification to set dimensions of a given image without style and using inline style. Write complete HTML code to implement the following in a web page:
 - i. An image titled “kite.jpg” with the required inline CSS properties to link to Google web site. (3)
 - ii. Link to the URL www.mysite.com/kite.jpg with the label “Click Here”.
 - C) How a navigation link could be set up in the form of an unordered list. Show HTML code and clearly describe whether navigation link could be classified as a semantic or a non-semantic element. (3)
- 2) Give internal CSS style definition for div components highlighting the output with margin and without margin. Clearly display the output by applying the class specification to three div components and illustrate the difference. (4)
 - A)
 - B) Show how HTML span element as an inline container could make use of CSS internal style. Write complete HTML code and display the output. (3)
 - C) With perspective, show how translateZ, translateX and translateY could display the output. Show a sample output for the same perspective of 500 px and translate in x, y and z direction by 200 px. Show complete HTML code. (3)
- 3) Explain the significance of JavaScript usage. Clearly show a sample JavaScript code placed in head element and enumerate the differences for the same while placed in body element. (4)
 - A)
 - B) Illustrate with suitable code samples, lexicographic string comparison algorithm adopted in JavaScript. (3)
 - C) What are the different methods by which we can convert a string to a number in JavaScript? Identify a scenario for such a conversion and explain with suitable code samples. (3)

- 4) What are the two methods of selecting HTML elements using DOM. Write a complete HTML program that includes jQuery to hide paragraph using CSS selector signifying the importance of CSS selectors over DOM methods. (4)
- A)
- B) Which of the two lines of code below is more efficient? Explain your answer and highlight their use case scenario. (3)
- `document.getElementById("demo");` or
`$("#demo");`
- C) Many JavaScript programs have to deal with the same set of web page tasks again and again. Identify two main steps that are to be performed to manipulate web pages and the necessity of jQuery library. (3)
- 5) With complete jQuery code, illustrate how new content could be added at the end of selected content using jQuery. Give its use case scenario. (4)
- A)
- B) Bring about two differences on the way how jQuery differs over JavaScript on accessing DOM. Justify with suitable examples and code samples. (3)
- C) With a suitable example, illustrate how jQuery selection could be enhanced by filter. (3)

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