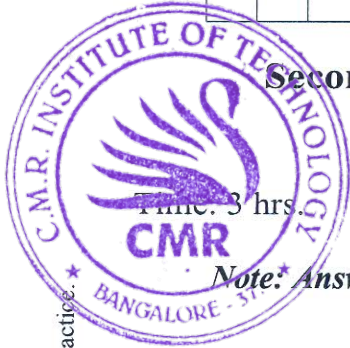


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Second Semester MCA Degree Examination, Jan./Feb. 2023 Web Technologies

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Explain HTTP protocol in detail. (10 Marks)
- b. Define Web Server. Explain its operation and characteristics. (10 Marks)

OR

- 2 a. Explain the following with example :
 - (i) Heading tag.
 - (ii) Hypertext link.
 - (iii) Image tag.
 - (iv) Select tag.
 - (v) Figure tag.(10 Marks)
- b. Explain the structure of HTML5 web page. (04 Marks)
- c. Explain different types of list with example. (06 Marks)

Module-2

- 3 a. What is CSS? Describe the different levels of style sheet and their precedence. (10 Marks)
- b. Explain variety of selector form with example. (10 Marks)

OR

- 4 a. Explain any 5 array methods used in Javascript. (10 Marks)
- b. Explain JavaScript methods alert (), prompt () and confirm () with an example. (10 Marks)

Module-3

- 5 a. What is Bootstrap? Develop a Bootstrap program to implement contextual classes to provide "meaning through colors". (10 Marks)
- b. What is responsive web design? Develop a Bootstrap program to add zebra-stripes to a table. (10 Marks)

OR

- 6 a. Explain Bootstrap containers. Develop a Bootstrap program to add spinners to a button. (10 Marks)
- b. Explain form validation in Bootstrap. Develop a Bootstrap program to create a stacked form with 2 input fields, one checkbox and a submit button. (10 Marks)

Module-4

- 7 a. Write a sample jQuery program and explain its structure. (10 Marks)
- b. Develop programs to implement the following jQuery effects :
 - (i) hide () and show ()
 - (ii) fadeIn and fadeOut ()(10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.*

OR

- 8 a. What is an event? List the common events found in jQuery. Develop a jQuery program to implement mouseenter () jQuery effect. (10 Marks)
- b. What is jQuery HTML? What are the methods used for DOM manipulation? Develop a jQuery program to get attribute values. (10 Marks)

Module-5

- 9 a. What is AngularJS? Explain the following AngularJS directives : ng-app, ng-model, ng-bind. (04 Marks)
- b. Write an AngularJS program to use expressions. (06 Marks)
- c. What is AngularJS data binding? Write a AngularJS program to add a controller. (10 Marks)

OR

- 10 a. What are AngularJS filters? Write a AngularJS program to show how you can add filters to expressions. (10 Marks)
- b. What is a AngularJS service? Explain any 4 of them. Write a AngularJS program to show how you can use \$location service. (10 Marks)

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