CBCS SCHEME

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20MCA23

C.M.R. INSTITUTE OF TECHNOLOGY CMR BANGALORE

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

Time: 3 hrs. Max. Marks: 100

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

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.

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)**

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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