

# CBCS SCHEME

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18CS63

## Sixth Semester B.E. Degree Examination, July/August 2022 Web Technology and its Applications

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

- What is HTML? Explain the structure of HTML document with an example. (08 Marks)
  - What are contextual selectors? Identify and explain 4 different contextual selectors. (08 Marks)
  - Write the syntax of below mentioned HTML elements and briefly explain with examples.: (04 Marks)
    - <a>
    - <img>

OR

- Illustrate the CSS box model. Be sure to label and briefly explain each component of the box. (08 Marks)
  - List the HTML5 semantic elements and explain any three with suitable examples. (08 Marks)
  - Describe the embedded style sheet with example. (04 Marks)

### Module-2

- Write HTML code for the following table with appropriate styling:

Year : 2021							
Month	Days		Dates				
	Name	Id					
March	Mon	1	1	8	15	22	29
	Tue	2	2	9	16	23	30
	Wed	3	3	10	17	24	31
	Thu	4	4	11	18	25	
	Fri	5	5	12	19	26	
	Sat	6	6	13	20	27	
	Sun	7	7	14	21	28	

- What is responsive design? Explain in brief the four key components that make a responsive design work. (08 Marks)
  - Illustrate and briefly explain the use of number and range HTML5 controls. (04 Marks)

OR

- Illustrate the construction of multi column layouts with example. (08 Marks)
  - Explain the different types of buttons defined in HTML. (08 Marks)
  - How the block level and inline elements are displayed in the normal flow? (04 Marks)

### Module-3

- Write Javascript code that uses function for the following problems:
    - For the string input the output should be to display the position of left most vowel. (08 Marks)
    - For the numeric input output should be to display the reverse of a number. (08 Marks)
  - Explain the two approaches to embed PHP script in HTML with suitable and compare the two approaches. (08 Marks)
  - What is DOM? Briefly explain the different types of nodes. (04 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

- 6 a. Explain the PHP module in Apache and describe the difference between multi-threaded and multi-process setup. (08 Marks)
- b. Discuss the different ways the javascript can be included in HTML page and which is the most preferred way and why? (08 Marks)
- c. List the Web Server's responsibilities. (04 Marks)

Module-4

- 7 a. What are super globals? List the different super globals and briefly explain any two. (08 Marks)
- b. Explain the support of object oriented design in PHP. (08 Marks)
- c. Write a PHP code that checks for valid MIME types and file extensions. (04 Marks)

OR

- 8 a. Write a PHP program to create a class called "Artist" with suitable constructor. All its data members are accessible only inside the class.  
Data members : first name, last name, birth city, birth date  
Data functions : getters and setters  
Using above class instantiate two objects and displays the artist details. (08 Marks)
- b. Explain the two techniques provided in PHP for reading/writing files and also list comparative advantages and disadvantages. (08 Marks)
- c. What is a visibility of a class member? Briefly explain the different levels of visibility. (04 Marks)

Module-5

- 9 a. What is session state? How does session state works with suitable example. (08 Marks)
- b. Demonstrate the manipulation of attributes, properties and styles of the element using jQuery with suitable examples. (08 Marks)
- c. What is JASON? Explain with the code example, how to convert string to JASON and vice versa. (04 Marks)

OR

- 10 a. What is AJAX? Using an UML diagram, explain how the asynchronous request is handled. (08 Marks)
- b. Explain the loading and processing of an XML document in javascript with suitable example. (08 Marks)
- c. Using functions, emulate a class with data members and member functions in javascript. (04 Marks)

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