

USN

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

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

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

OR

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

Module-2

- 3 a. 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 | |

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

OR

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

Module-3

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

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 it's 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)

* * * * *