

# CBCS SCHEME



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15CS71

## Seventh Semester B.E. Degree Examination, Feb./Mar. 2022 Web Technology and Its Applications

Time: 3 hrs.

Max. Marks: 80

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

### Module-1

- 1 a. Explain the following HTML5 Elements with an example:  
(i) <nav> (ii) <figure> (06 Marks)
- b. What is HTML semantic markup? List and explain important advantages of HTML semantic markup. (06 Marks)
- c. Explain any four properties for the following :  
(i) Font properties (ii) Text properties. (04 Marks)

OR

- 2 a. What is specificity? Write an algorithm to determine specificity of any given HTML Element. Determine the specificity of following selectors:  
(i) body .example (ii) div #first (06 Marks)
- b. What is a selector? Explain different types of selectors with an example. (10Marks)

### Module-2

- 3 a. Create an HTML form called RESUME FORM consisting of the following elements:  
(i) Text box (ii) Radio buttons (iii) Checkboxes (iv) Submit button (v) Choice list.  
Consider Name, Gender, Hobbies, Semester as labels. (06 Marks)
- b. Explain the concept of microformats. Give an example for hcard. (06 Marks)
- c. Discuss the importance of 'Accessible Forms'. (04 Marks)

OR

- 4 a. Write an HTML document to display the following table :

| List of Paintings and their prices |              |      |                       |       |             |
|------------------------------------|--------------|------|-----------------------|-------|-------------|
| Artist                             | Title        | Year | Size (Width × height) |       | Price (Rs.) |
| SBH                                | Ramavatar    | 1788 | 200cm                 | 200cm | 1000        |
|                                    | Krishnavatar | 1800 | 300cm                 | 200cm | 1500        |
| Total price                        |              |      |                       |       | 2500        |

- b. With respect to positioning of an element, explain the following :  
(i) Relative positioning (ii) Absolute positioning (06 Marks)
- c. Briefly explain the Approaches to CSS (Cascading Style Sheet) Layout. (04 Marks)

### Module-3

- 5 a. Explain the different types of events supported by Javascript. (08 Marks)
- b. Write a Javascript code that displays text "TEXT.GROWING" with increasing font size in the interval of 100ms in RED COLOR, when the font size reaches 50pt it displays "TEXT.SHINKING" in BLUE COLOR. Then the font size decreases to 5 pt. (08 Marks)

OR



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- 6 a. What is server side scripting? List and explain the various server-side technologies. (06 Marks)  
b. Write a PHP program to display a digital clock which displays the current time of the server. (04 Marks)  
c. Write a PHP code to demonstrate the following :  
(i) Passing a parameter by value  
(ii) Passing a parameter by reference (06 Marks)

**Module-4**

- 7 a. Briefly explain the following :  
(i) \$\_SERVER Array (ii) \$\_FILES Array (06 Marks)  
b. Explain the Two Basic Techniques for Reading/Writing files in PHP. (06 Marks)  
c. What is a superglobal variable? List any eight superglobal variables available in PHP. (04 Marks)

**OR**

- 8 a. Briefly discuss the object-oriented design in PHP. (08 Marks)  
b. Explain the Error Reporting Flags in PHP. (06 Marks)  
c. What are the TWO Mechanisms for handling runtime errors in PHP? (02 Marks)

**Module-5**

- 9 a. What is a Cookie? Write a fragment of PHP code to demonstrate reading and writing a cookie. (08 Marks)  
b. What is Caching? Explain the page output caching with a diagram. (08 Marks)

**OR**

- 10 a. What is jQuery? Discuss 'jQuery Listeners'. (08 Marks)  
b. Briefly explain the following :  
(i) Asynchronous Javascript with XML (AJAX)  
(ii) Java Script Object Notation (JSON) (08 Marks)

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