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15CS71

**Seventh Semester B.E. Degree Examination, Dec.2119t3an.2020**  
**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**

- I a. Explain the role of <ul> and <ol> HTML tags with syntax and examples. (06 Marks)
- b. Explain the need of 'cascade' in CSS. Illustrate three principles of cascade with suitable CSS script segments. (06 Marks)
- c. Explain class selector and pseudo selectors of CSS with relevant scripts. (04 Marks)

**OR**

- 2 a. Explain two types of URL referencing techniques with suitable scripts in HTML5. (04 Marks)
- b. Explain the role of the following semantic elements of HTML5 with syntax and script segments:
  - (i) <nav>                      (ii) <section>                      (iii) <aside> (06 Marks)
- c. Explain the following CSS properties with suitable examples:
  - (i) float                      (ii) position                      (iii) overflow. (06 Marks)

**Module-2**

- 3 a. Compare radio and check box controls of HTML5 with examples. (06 Marks)
- b. Explain the structure of <form> element with an example. Illustrate the role of action and method attributes. (06 Marks)
- c. Explain the role of display and visibility properties in CSS with examples. (04 Marks)

**OR**

- 4 a. Explain different forms of text input controls with examples. (04 Marks)
- b. Explain the role of CSS position property. With suitable examples, explain absolute and relative positioning. (06 Marks)
- c. Explain liquid (fluid) layout design for websites with an example. List Liquid layout benefits and limitations. (06 Marks)

**Module-3**

- 5 a. Explain three forms of linking JavaScript to HTML page with suitable code segments. (08 Marks)
- b. With suitable diagrams, explain PHP module in apache. Describe the role of apache threads in web application execution. (08 Marks)

**OR**

- 6 a. Explain two methods in JavaScript to access DOM nodes with examples. (04 Marks)
- b. Explain two approaches for event handling in Java Script with suitable code segments. (06 Marks)
- c. With relevant code segments, explain two approaches to embed PHP script in HTML. (06 Marks)

**Module-4**

- 7 a. With data flow diagrams, explain the role of PHP's S\_GET and \$\_POST arrays. (08 Marks)  
b. Explain procedural error handling and object oriented exception handling with suitable code segments. (08 Marks)

**OR**

- 8 a. Explain the support for inheritance in PHP with UML class diagram. (08 Marks)  
b. Explain three approaches to restrict the file size in file upload with suitable code segments. (08 Marks)

**Module-5**

- 9 a. With suitable PHP scripts, explain creating and reading Cookies. (04 Marks)  
b. With suitable examples, explain four basic jQuery selectors. (06 Marks)  
c. With suitable script, explain loading and processing an XML document in JavaScript. (06 Marks)

**OR**

- 10 a. With suitable PHP scripts, explain checking session existence and accessing session state. (06 Marks)  
b. With suitable scripts, explain AJAX GET requests and POST requests. (06 Marks)  
c. With suitable code segments, explain converting a JSON string to JSON object in JavaScript and a PHP object in PHP. (04 Marks)