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15CS71

## Seventh Semester B.E. Degree Examination, July/August 2022 Web Technology & 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. Write the syntax to define links in HTML documents with suitable scripts. (04 Marks)
- b. With suitable script segments, outline the role of :
- (i) <nav>
- (ii) <aside> (06 Marks)
- c. Explain the role of CSS selectors with suitable CSS and HTML scripts.
- (i) id selector
- (ii) pseudo selector (06 Marks)

**OR**

- 2 a. Develop the HTML script for the following:  
Professional courses
- (i) Engineering
- Computer
  - Mechanical
  - Electronics
- (ii) Health Sciences
- Medical
  - Nursing.
  - Pharmacy
- (iii) Management
- Business
  - Finance
  - Tourism
- b. Write the role of CSS properties with suitable script segments.
- (i) Position
- (ii) Overflow. (04 Marks)
- c. Define 'Specificity'. Outline specificity algorithm and illustrate with suitable CSS segments. (06 Marks)

### Module-2

- 3 a. Write the typical structure of <form> element. Illustrate the role of attributes : action and method. (06 Marks)
- b. Illustrate different button control elements with suitable scripts. (04 Marks)
- c. Explain the role of media queries in responsive web design with syntax and script segments. (06 Marks)

**OR**

- 4 a. Illustrate different text input control with suitable script segments. (04 Marks)
- b. Explain the role of CSS padding and float properties with script segments of CSS and HTML. (06 Marks)

c. Explain the role of CSS properties:

- (i) Display
- (ii) Z-index
- (iii) Clear.

With suitable script segments of CSS and HTML.

(06 Marks)

### Module-3

- 5 a. Illustrate three ways of linking Java Script to HTML page with code segments of HTML and Java Script. (06 Marks)
- b. Explain two approaches for event handling in Javascript with code segments. (04 Marks)
- c. With a sequence diagram, explain the stages of PHP script reaction with Zend engine. (06 Marks)

OR

- 6 a. Explain the role of :
- (i) get Element ById ( )
  - (ii) get Element ByTagName ( )
  - (iii) innerHTML
- in accessing and modifying elements with suitable script segments. (06 Marks)
- b. With code segments, explain two approaches to embed PHP script in HTML. (04 Marks)
- c. Develop a script in HTML to read a number through <form> element. Develop a PHP script which reads a number and generates a fibonacci sequence. Integrate HTML and PHP script to display fibonacci series. (06 Marks)

### Module-4

- 7 a. With data flow diagrams, explain the role of PHPs \$\_GET and \$\_POST arrays in web application development. (06 Marks)
- b. With suitable script and UML class diagram, explain the support for inheritance in PHP. (06 Marks)
- c. List and explain the role of three error reporting flags in PHP. (04 Marks)

OR

- 8 a. Develop the suitable scripts in HTML and PHP to upload a file onto server with a restriction on file size of 200 KB. (06 Marks)
- b. Explain defining and implementing interfaces in PHP with suitable code segments. (06 Marks)
- c. Explain object oriented exception handling constructs in PHP with code segments. (04 Marks)

### Module-5

- 9 a. Define two types of cookies. Explain creating and using cookies in PHP with code segments. (06 Marks)
- b. Explain the role of attr ( ) and prop ( ) methods in jQuery with code segments. (04 Marks)
- c. Explain the methods used for XML processing in jQuery and PHP with code segments. (06 Marks)

OR

- 10 a. Explain session state with an example. Write PHP code segments to access session state and checking session existence. (06 Marks)
- b. Explain AJAX Get requests with syntax and code segments. (04 Marks)
- c. Explain JSON format with an example. Write a Javascript code segment to process a simple JSON file. (06 Marks)

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