15CS71

USN

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   **(06 Marks)**
    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 infact 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 fibbonacci sequence. Integrate HTML and PHP script to display fibbonacci 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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