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17CS71

Seventh Semester B.E. Degree Examination, Jan./Feb.2021 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 are the 3 aims of HTML5? (04 Marks)
- b. Explain the need of cascade in CSS. Explain the 3 principles of cascade with suitable CSS script segments. (08 Marks)
- c. Explain two types of URL referencing techniques with suitable scripts in HTML5. (08 Marks)

OR

- 2 a. List and explain the different selectors available in CSS. (08 Marks)
- b. Discuss the HTML5 semantic structure elements. (08 Marks)
- c. List the different text properties with a description. (04 Marks)

Module-2

- 3 a. Explain different form widgets created with the <input> tag. (08 Marks)
- b. Write HTML code for following table:

Day	SEMIENAR		
	SCHEDULE		TEOPIC
	BEGIN	END	
MONDAY	8:00 am	5:00 pm	Introduction to XML
			Validity : DTD & NG
TUESDAY	11:00 am	2:00 pm	XPAT4
	11:00 am	2:00 pm	
	2:00 pm	5:00 pm	XSL transformations
WEDNESDAY	8:00 am	5:00 pm	XSL Formatting Objects

(12 Marks)

OR

- 4 a. Explain liquid layout design for websites with an example. List the fluid layout benefits and limitations. (08 Marks)
- b. Explain different ways of positioning elements in CSS layout techniques. (08 Marks)
- c. What are the importances of responsive design? Explain briefly. (04 Marks)

Module-3

- 5 a. Write a Javascript code that displays text "CORONA VIRUS" with increasing font size in the interval of 100 ms in blue color, when font size reaches 50 pt in teal color and should stop. (08 Marks)
- b. Explain the advantages and disadvantages of client side scripting. (06 Marks)
- c. With suitable diagram, explain APACHE modules in PHP. (06 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

**OR**

- 6 a. With suitable code segment, explain 2 approaches for event handling in Java script. (08 Marks)
b. Write PHP program to greet the user based on time. (08 Marks)
c. Explain 2 methods in Java Script to access DOM nodes with examples. (04 Marks)

Module-4

- 7 a. List and explain different superglobal arrays. (08 Marks)
b. Explain the different error handling methods, with suitable code segments. (08 Marks)
c. How do you read or write file on server from PHP? Give example. (04 Marks)

OR

- 8 a. Write a PHP program to create a class Employee with the following specifications:
Data members : Name, ID, Payment.
Member function : Read (getters) and write (setters)
Use the above specification to read and print the information of 10 students. (08 Marks)
b. Explain the support for inheritance in PHP with UML class diagram. (06 Marks)
c. Explain 3 approaches to restrict file size in file upload with suitable code segments. (06 Marks)

Module-5

- 9 a. Explain different types of caching used to improve performance of web application. (08 Marks)
b. With suitable PHP script, explain loading and processing an XML document in Java script. (08 Marks)
c. Explain creating and reading cookies with suitable PHP scripts. (04 Marks)

OR

- 10 a. Define AJAX. Explain AJAX request by writing UML diagram. (08 Marks)
b. Explain JavaScript pseudo-classes with examples. (08 Marks)
c. Explain converting a JSON string to JSON object in JavaScript with suitable code segments. (04 Marks)

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