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**Sixth Semester B.E. Degree Examination, June/July 2024**  
**Web Programming**

Time: 3 hrs.

Max. Marks: 100

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

**Module-1**

- 1 a. What is HTML? Explain the structure of HTML document with an example. (08 Marks)  
 b. What are HTML elements and attributes? Explain with example. (06 Marks)  
 c. What is CSS? List and explain benefits of CSS. (06 Marks)

**OR**

- 2 a. With an example explain CSS Box model. (08 Marks)  
 b. How does you style the table? Explain with an example. (06 Marks)  
 c. List and explain different selectors available in CSS. (06 Marks)

**Module-2**

- 3 a. Write HTML code for the following table :

SEMINAR			
DAY	SCHEDULE		TOPIC
	BEGIN	END	
MONDAY	8.00 AM	5.00 PM	INTRODUCTION TO XML validity : DTD and NG
TUESDAY	11 : 00 AM	2:00 PM	XPAT
	11 : 00 AM	2:00 PM	XSL Transformation
	2 : 00 PM	5:00 PM	
WEDNESDAY	8 : 00 AM	5:00 PM	XSL Formatting object

- (12 Marks)  
 b. Explain Responsive design with its four key components. (08 Marks)

**OR**

- 4 a. Illustrate the construction of multi-column layouts with example. (08 Marks)  
 b. Explain the role of CSS preprocessors in the web development workflow. (06 Marks)  
 c. Write a note on CSS framework. (06 Marks)

**Module-3**

- 5 a. What is DOM? Briefly explain the different types of nodes. (08 Marks)  
 b. Write Javascript code that uses function for the following problems :  
 (i) For the string input, the output should be to display the position of left most vowels.  
 (ii) For the numeric input, output should be to display the reverse of the number. (08 Marks)  
 c. Briefly explain web servers responsibility. (04 Marks)

**OR**

- 6 a. With suitable code segments, explain two approaches for event handling in javascript. (08 Marks)  
 b. Write a PHP program to greet the user based on time. (04 Marks)  
 c. What are server side include files? Why are they important in PHP? (08 Marks)

**Module-4**

- 7 a. What are the super global arrays in PHP? What function is used to determine if a value was sent via query string? (10 Marks)  
b. Explain the different error handling methods with suitable code segment. (10 Marks)

**OR**

- 8 a. Write a PHP program to create a class employer with the following specifications :  
Data members : name, id, payment  
Member functions : read and write  
Use the above specification to read and print the information of 10 students. (08 Marks)  
b. How do you read and write a file on the server from PHP? (08 Marks)  
c. Write a note on classes and objects in PHP. (04 Marks)

**Module-5**

- 9 a. Explain different types of caching need to improve the performance of web applications. (08 Marks)  
b. What are HTTP cookies? How do you handle them in PHP? (08 Marks)  
c. How do you manage state in PHP? (04 Marks)

**OR**

- 10 a. What is AJAX? Using an XML diagram, explain how the synchronous request is handled. (08 Marks)  
b. Explain JS pseudo classes with example. (08 Marks)  
c. Explain converting a JASON string to JASON object in JavaScript with suitable code segment. (04 Marks)

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