Exam.Code:0915
Sub. Code: 33420

2076

B. E. (Computer Science and Engineering)

Third Semester

CS-304: Web Technologies

Time allowed: 3 Hours Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.

x-x-x

1. Answer the following:-
   a) How does DHTML differ from static HTML?
   b) What are the indexed and associative arrays in PHP?
   c) State differences between synchronous and asynchronous AJAX.
   d) Write HTML code to insert an image with width, height, and alt text.
   e) Write a note on XML DOM. (5x2)

UNIT - I

2. a) What are the objects in JavaScript? Write a script to generate random numbers.

   b) What is the purpose of using CSS in HTML pages? Create a webpage demonstrating font and background styling. (2x5)

3. a) Compare internal and external DTDs for XML validation.
   b) Elaborate Internet addressing. Discuss types of IP addresses and how they are used. (2x5)

4. a) Explain the attributes and control of HTML form. How the nested tables are used in HTML?
   b) Explain client-side and server-side technologies in building a dynamic web application. (2x5)

UNIT - II

5. a) Create a PHP script to swap two numbers using a temporary variable.
   b) Explain how PHP and MySQL work together to create dynamic web pages. (2x5)

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6. a) Explain the various types of joins in MySQL.

   b) What is an XML schema? State with example the creation of an XML schema. (2x5)

7. Write note on the following:

   a) HTTP and SMTP

   b) Applications of PHP

   c) XML parsers

   d) Arrays in JavaScript (4x2½)

x-x-x