

Roll No. 226

Total Pages : 04

8702

BT-7/D-13

WEB ENGINEERING

CSE-403

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. (a) Discuss the most basic elements to create cohesive organization systems including navigational considerations. 8
- (b) Explain conceptual design by considering all aspects of information architecture. 7
2. (a) Explain the following for organizing information: 8
 - (i) Content Inventories and Chunking Information
 - (ii) Hierarchies and Taxonomies.

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- (b) Explain the following navigational systems :
- (i) Hierarchical navigational systems
 - (ii) Ad-Hoc navigational systems. 7

Unit II

3. (a) Write HTML code which includes all of the necessary properties to show the background color, radio element, text element and font family to display an organization's Website. 8

- (b) Define Meta tags. How semantic linking of meta information is done in HTML ? 7

4. (a) Write short notes on the following :

- (i) Image preliminaries
 - (ii) Unformatted tags
 - (iii) CSS text and color properties
 - (iv) Cell spacing and cell padding. 8
- (b) Write CSS code to differentiate between ID selectors and Class selectors. 7

Unit III

5. (a) Write CGI using PERL program for the following : 10
- (i) To print the sum of first 50 even numbers
 - (ii) To reverse an integer number.
- (b) How to decode the form elements in CGI using PERL ? 5
6. (a) Discuss the architectural and coding guidelines of CGI. 8
- (b) Write CGI using PERL program to explain the concepts of control structures. 7

Unit IV

7. (a) Create a valid XML document of 5 students of B.Tech. class by adding their names, roll numbers, marks obtained, total marks and percentage of marks in 5 different subjects. Save this XML document at the server. Write a program that accepts student's roll number as an input and returns the student's marks,

total marks and percentage of marks by taking the student's information for XML document. 10

(b) How to integrate scripts in JSPs ? 5

8. (a) Explain the basic architecture of JSP. Discuss the basic mechanisms for creating and reading cookies in JSP. 8

(b) How the entity declarations and element declarations are done in XML ? 7

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