

Tribhuvan University
Institute of Science and Technology
2075
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Bachelor Level/Third Year/Six Semester/Science
Computer Science and Information Technology (CSc. 353)
(Web Technologies)

Full Marks: 60
Pass Marks: 24
Time : 3 hours.

Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.

Section A

Attempt any Two questions.

(2×10 =20)

1. Explain the architectural issues of web layer with example.
2. Explain the use of XML in web development. Write internal and external DTD to describe "mail" as a root element and "to", "from", and "subject", and "message" as child elements.
3. Develop a simple Web site that takes first name, last name and address from the user and stores this information in the database. Use JavaScript to validate form data.

Section B

Attempt any Eight questions.

(8×5=40)

4. What is the structure of HTML file? Explain with example.
5. Define CSS? How can you use an external CSS? Explain.
6. How can you define event handler? Write a Javascript to demonstrate event handling. Compare XML schema with DTD.
7. Discuss the use of Cookies with suitable example.
8. Why do we need XSLT? Explain XSL <xsl:for-each> Element.
9. What is Web server software? Discuss its role on the Internet.
10. Write server-side code to select data stored in the database.
11. Discuss integrated window authentication.
12. Write short notes on:
 - a) SMTP
 - b) XQuery