Bachelor Level / fifth-semester / Science Full marks: 60 **Computer Science and Information Technology(CSC318)** Pass marks: 24 (Web Technology) 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.

Group A

Attempt any Two questions: (2x10=20)

1. Explain the architectural issues of the web layer with examples.

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.

Group B

Attempt any Eight questions: (8x5=40)

4. What is the structure of an HTML file? Explain with examples.

5. Define CSS? How can you use an external CSS? Explain.

6. How can you define an event handler? Write a Javascript to demonstrate event handling. 7. Compare XML schema with DTD.

8. Discuss the use of Cookies with suitable examples.

9. Why do we need XSLT? Explain XSL <xls:for-each> Element.

10. What is Web server software? Discuss its role on the Internet.

11. Write server-side code to select data stored in the database.

12. Discuss integrated window authentication.

13. Write short notes on:

   a) SMTP

   b) XQuery