

THE OPEN UNIVERSITY OF SRI LANKA  
DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE  
B.Sc. DEGREE PROGRAMME 2015/2016  
**NO BOOK TEST 02**  
**CPU3149: WEB TECHNOLOGIES**  
**DURATION: 01 HOUR ONLY (ONE HOUR)**



---

Date: 28.04.2016

Time: 04.15 pm - 05.15pm.

---

Answer ALL Questions.

**Q1). Sharing data and information is a very important fact to sustain in the present data hungry society. Meteorological department is planning to distribute weather information in their local database in a more efficient manner, using XML and web services technologies.**

- i. Describe briefly the process of entering and displaying daily weather information on department website using a database.
- ii. Design the XML, which can be used to share weather data in an efficient way.
- iii. Briefly describe two ways to improve the sharing and reusing of data by introducing XML technology.
- iv. Describe how to enhance the usage of weather data by implementing the web service methods using two examples.

**Q2). As an IT consultant of a web design and development company, you are required to guide your team towards improving your deliverables.**

- i. Briefly explain two usages of different web development tools you will recommend inside your company.
- ii. When you create an e-commerce website for a bookstore, list four security measures that you would plan to implement.
- iii. Briefly explain the importance of Search Engine Optimization, when you build a website for a hotel. List four methods of optimizing the website for search engines.
- iv. List the steps of hosting a website on the Internet after your team has built it in the local server.

**\*\*\* All Rights Reserved\*\*\***