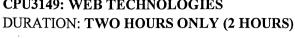THE OPEN UNIVERSITY OF SRI LANKA
DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
B.Sc. DEGREE PROGRAMME 2013/2014
FINAL EXAMINATION
CPU3149: WEB TECHNOLOGIES
DURATION: **TWO HOURS ONLY (2 HOURS)**

28th June 2014 | **Time: 9.30 a.m. to 11.30a.m.**

Answer **FOUR** Questions **ONLY**.

Q1).

a) List and describe the advantages and disadvantage of the client server model.

b) Describe briefly the features of thin, thick and rich client applications.

c) Name and write short notes about three (03) different email protocols.

d) What is FTP? Write the steps of downloading a file from a FTP server.

Q2).

a) List four (04) techniques you would follow to increase the user friendliness of a web site.

b) Describe briefly how CGI animation works and how it was replaced by the newer technology.

c) Explain the difference between *web designing* and *web development*.

d) List down five (05) web development tools and briefly describe one of them.

Q3).

a) What is web crawling? List two (02) techniques of improving the productivity of it.

b) Explain briefly how the search word index is built.

c) Explain what SEO is and why it is important.

d) Describe briefly three techniques of Search Engine Optimization (SEO).

Q4).

a) Explain briefly how XML can be used to store book inventory data.

b) What are the advantages of using XML for web applications? Explain each of them briefly.

c) What is a web service? Describe a scenario where web services can be utilized to improve the quality of a web system.

d) List four (04) commonly known web security vulnerabilities and explain them briefly.

Q5).

    a) Explain briefly the role of a web server when a web page is accessed over the Internet.

    b) List the steps of hosting a web site you have already developed.

    c) Describe briefly what is real-time monitoring in the context of web hosting.

    d) List two (02) different password policies and explain briefly the importance of having a password policy.

Q6).

    a) List four (04) usages of JavaScript on client side programming and explain one (01) of them briefly.

    b) Explain briefly two (02) advantages of using CSS.

    c) Explain briefly two (02) development design considerations of mobile web development.

    d) List and describe briefly four (04) enhancements of HTML5.