



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2007/2008
INSTITUTE OF OPEN LEARNING
EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
INFORMATION TECHNOLOGY

SIT 010: INTRODUCTION TO INTERNET TECHNOLOGIES

DATE: Monday 7th January 2008

TIME: 8.00am – 10.00am

INSTRUCTIONS: Answer Questions One and ANY OTHER TWO Questions

QUESTION ONE: Compulsory (30 marks)

- a) Define the following terms used in Internet programming:
- i) Web Site
 - ii) Tag
 - iii) Hypermedia
 - iv) Attribute
- [4 marks]
- b) Briefly explain the difference between an open and a closed element. [2 marks]
- c) Explain the difference between Internet and World Wide Web. [2 marks]
- d) Explain the difference between relative path names and absolute path names that can be used for including files in web pages. Explain briefly the strengths and weaknesses of each. [6 marks]
- e) i) Explain the function of the TYPE attribute to the form object [2 marks]
- ii) Explain how the GET and POST values of the METHOD attribute to the FORM Tag transmit data from a form to a server component. [6 marks]
- f) Describe the process of planning for the development of a website clearly. Highlighting all the factors that need to be considered in order to come up with a good Web site. [8 marks]

QUESTION TWO: [20 marks]

- a) Explain the meaning of the term hyperlink and hence illustrate using some code snippet the different parts of a hyperlink in HTML. [4 marks]
- b) Explain the role of anchors in HTML documents [3 marks]
- c) Write HTML code uses a hyperlink to navigate to the bottom of a Web page when the link at the top of the page is clicked. [4 marks]
- d) List down any three elements that are used with the TABLE tag. [3 marks]
- e) Write down the HTML code that will display the following table in a Web browser. [6 marks]

[6 marks]

SEX	
MALE	FEMALE
34	24

QUESTION THREE: [20 marks]

- a) Explain the term “frames” as used in HTML. [2 marks]
- b) Discuss the advantages of frames over tables for the organization of a web page’s layout. [6 marks]
- c) Create the code for a table that implements the figure below. [6 marks]

First row	
Second row first column	Second row second column
Third row	

- d) Explain the factors that a Web designer needs to consider during the selection of colours for a Web page. [6 marks]

QUESTION FOUR: [20 marks]

- a) List and describe the basic hardware and software requirements for a www client access [8 marks]
- b) List and describe the basic hardware and software requirements for a functional www server [8 marks]
- c) Identify **FOUR** security risk areas of the world wide web [4 marks]

QUESTION FIVE: [20 marks]

- a) Differentiate absolute pathname and relative pathname as used in creation of links in HTML documents, highlight the merits and demerits of each method [4 marks]
- b) Why is it important to use the alt attribute to display a text alternative for an image? [2 marks]
- c) Given two HTML documents – jkuat.html and students.html, provide the HTML document that uses frames to display the two documents [6 marks]
- d) Give a description of the following [8 marks]
- URL
 - Web browser
 - World Wide Web
 - HTML