



MACHAKOS UNIVERSITY

University Examinations for 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

FIRST YEAR SECOND SEMESTER EXAMINATION FOR

DIPLOMA OF INFORMATION COMMUNICATION TECHNOLOGY

DIT 107: WEB BASED PROGRAMMING 1

DATE: 7/5/2019

TIME: 11.00-1.00 PM

INSTRUCTIONS

Answer **question ONE** and any other **TWO** questions.

QUESTION ONE (30 MARKS)

- a) Describe the following terms in relation to web based programming:
- i. HTML;
 - ii. Web Server;
 - iii. Web hosting;
 - iv. ISP. (8 marks)
- b) Using HTML tags, create a simple webpage called “Welcome” page which displays the following sentence in heading 1 which is centrally aligned. “ WELCOME TO MACHAKOS UNIVERSITY ” (4 marks)
- c) Leah who is operating an event planning business has recently launched a website for his business. Explain **four** benefits of having a business website. (8 marks)
- d) Write the HTML script that would display the table below on a web browser. (6 marks)

January		April
	March	
February		May

- e) Outline **two** characteristics of a well-designed website. (2 marks)

- f) Outline four examples of ISPs found in Kenya. (2 marks)

QUESTION TWO (20 MARKS)

- a) Describe the following communication Protocols used in the TCP/IP model;
- i. HTTP;
 - ii. FTP;
 - iii. Ethernet;
 - iv. TCP. (8 marks)
- b) Giving **two** examples of scripting languages in each case, differentiate between client side and server side scripting. (6 marks)
- c) Describe **three** services provided by the internet. (6 marks)

QUESTION THREE (20 MARKS)

- a) Create **two** simple web pages which are able to link to each other without having a broken link.
- i. Page 1 (lighthouse page) should have a yellow background color, have an image called “lighthouse.jpg”, and link to an email address. (lighthouse@gmail.com).
 - ii. Page 2 (Penguins Page), should have a blue background color, have an image called “penguins.jpg” and a link to an email address. (penguins@yahoo.com). (10 marks)
- b) Create the following page called “Fruits” using the appropriate HTML tags.
- Which fruit do you like?
- ☐ Apple
 - ☒ mango
 - ☐ Orange (10 marks)

QUESTION FOUR (20 MARKS)

- a) List the tags that would be used to bold, italicize, and underline text. (3 marks)
- b) Illustrate how to include comments in html (2 marks)

- c) Briefly describe the Internet protocol suite as known as the TCP/IP model, describing the function of each layer. (8 marks)
- d) Show the tags that would be used to create the following page as it appears. The title of the page is Countries I have visited. (7 marks)

The countries and cities that I have visited are

- Oman
 - Muscat
 - Salalah
 - Nizwa
- South Korea
 - Seoul
 - Suwon
 - Inchon

QUESTION FIVE (20 MARKS)

Illustrate how one would create the following page on the browser and have the images appear as links to soccer, music, and book pages respectively. (20 marks)

My name is John Mark.

I am a student at Machakos University

My hobbies are



Playing Football



Listening to Music



Reading