



Machakos University

University Examinations for 2017/2018 Academic Year

SUPPLEMENTARY

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

Second Year Second Semester Examination for Bachelor of Information Technology.

SIT 209: WEB DESIGN

Date: AUGUST 2018

Time:

Instructions

This paper consists of FIVE questions.

Answer **question ONE** and **any other TWO** questions in this paper.

Question One (30 Marks)

- Differentiate between **extranets** and **intranet** as used in the context of web technology
[4 marks]
- There are basically **three** ways of inserting CSS file into an HTML file. Using valid examples, explain how each works and when it is necessary to use each [9 marks]
- Write an appropriate HTML code to generate the following web page

#	Product	price
1	Ramtoms iron Box	Ksh 2,500
2	Mineral water (300 ml)	Ksh 30
3	Bread (500 grams)	Ksh 45
4	Protex Soap (100G)	Ksh 150
5	Ariel Detergent (500g)	Ksh 130
Get quantity		

[7 marks]

- d. The following figures depicts the proposed index page for *peter mulei supermarket* website. As a web programmer, you are requested to write the appropriate code to generate the page. Use the appropriate web development development tools to design and produe an appropriate layout. [10 marks]

<i>Peter Mulei Supermarket</i>								
		Search		Search...	GO		Login	Register
Home	About US	TECHNOLOG	HouseHold	Clothing	Contact Us	Faqs		
HOME								
TECHNOLOGY								
HOUSEHOLD ▶								
CONTACT US								
FAQS								
		Welcome to peter Mulei website!						
Home About Us Clothing Eletronics Contact us Site Map								
Peter mulei supermarket								
All rights reserved ©2014								

- e. Explain what is meant by the following internet facilities

Gopherspace

telnet

[2 marks]

- f. Write an HTML code that inserts an image named *"muc.jp"* and provide the alternate text *"Machakos University"* [2 marks]

QUESTION TWO:

- a. Describe database driven websites or web pages, using examples [5 marks]
- b. Identify five multimedia data technologies applicable to internet programming and explain when you each should be used [5 marks]
- c. Write down the structure of an HTML web page, indicating the tags clearly [5 marks]
- d. Write the complete code to generate the following part of a web page. Ensure all the key elements for the Table below shown [5 marks]

Name		Course	Fee	
First	Last		Shs.	Cts.
Tom	Were	Mathematics	15000	00
Peter	Bonny	Engineering	40500	00

QUESTION THREE:

- a. Discuss 5 most important elements of a well-functioning Commercial Web site [10 marks]
- b. Differentiate between the following: [6 marks]
 - ii) Internal style sheets and external style sheets
 - iii) Web Server and Web browser
 - iv) Client and server
- a. With examples of technologies available for use today, highlight the main difference between client side scripting and server side scripting [4 marks]

QUESTION FOUR:

- a. Identify and explain any five common security mistakes in web applications [10 marks]
- b. Client-side JavaScript code can be embedded within HTML documents in a number of ways. Identify any FOUR ways [4 marks]

- c. Web applications provide services which make use of client- server architecture.
Explain any three services provided by the internet. **[6 marks]**

QUESTION FIVE:

- a. What are the two advantages of using CSS in external files? Using an illustration with tags or code, describe how you implement external CSS in your web page. Feel free to apply your styling to any HTML element **[10 marks]**
- b. Explain THREE main uses of JavaScript in internet programming **[6 marks]**
- c. Using the address <http://www.MU.ac.ke/mu-academics/faculties.html> , analyze the componnets of the URL. **[4 marks]**