



MACHAKOS UNIVERSITY

University Examinations for 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE (COMPUTER SCIENCE)

BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)

SCO: 207/ SIT 209: WEB DEVELOPMENT TECHNOLOGIES AND WEB DESIGN

DATE: 25/7/2019

TIME: 11.00-1.00 PM

INSTRUCTIONS

Instructions

This paper consists of FIVE questions

*Answer **question one** and other **two questions** in this paper*

1. a) Give a hyperlink example for each of the protocols listed (4 marks)
 - i. HTTP
 - ii. HTTPS
 - iii. FTP
 - iv. E-mail
- b) Write a HTML code that prompts the following actions:
 - i. Input a name
 - ii. Select one out of a limited choices (radio button)
 - iii. Checking ***** one may check boxes (9 marks)
- Explain
 - i. How CSS compliments HTML in web design. (3 marks)
 - ii. Any three features implementable using CSS. (6 marks)
- c) Perform a HTML table coding in a sequence to output the following information

NAME	SCHOOL	GRADE	COMMENT
Job	Maseno	A	Excellent
Alice	Ngiya	D	Pass
Joe	Kit	B	Good

(9 marks)

Write a HTML code that produces the following result:

MAIN TITLE	
Menu HTML OSS Javascript	Content goes here
Copyright @ JKUAT 2013	

(15 marks)

- i. Give the limitations of CSS (5 marks)
- ii. What is a domain name? (3 marks)
- iii. How is a domain name useful in a website. (3 marks)
- iv. Explain the steps in registering a domain name. (8 marks)
- d.
 - i. What is SSL? (2 marks)
 - ii. Explain two way of battering webometrizz ranking. (4 marks)
2.
 - a) State and explain any THREE types of websites. (6 marks)
 - b) Discuss any FIVE features of a good website. (5 marks)
 - c) Describe FIVE qualities of a good web designer. (5 marks)
 - d) Describe each of the following types of server
 - i. Web server
 - ii. DNS server (4 marks)
3.
 - a) State and explain any TWO ethical issues when using the internet. (2 marks)
 - b) Highlight how modern organizations respond to business pressures in this era of globalization. (6 marks)
 - c) Describe FOUR factor to consider when choosing an ISP. (8 marks)
 - d) Describe the benefits of outsourcing web development services. (4 marks)
4.
 - a)
 - i. Define the term URL (1 mark)
 - ii. Using an example, state and explain the THREE major components of a URL. (4 marks)

- b) Illustrate how a web browser works in a client-server architecture. (10 marks)
- c) i. What is a web-mail. (1 mark)

- ii. Distinguish between an e-mail and web mail giving advantages of each. (4 marks)

5. a) What are the uses of the following javascript operating signs

- (i) +
- (ii) =
- (iii) -
- (iv) ++
- (v) * (5 marks)

- b) Using an illustration explain:
If.....else if.....else statement (5 marks)

- c) Describe the steps and procedures in project management (10 marks)