



MACHAKOS UNIVERSITY

University Examinations for 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

SECOND YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)

BACHELOR OF SCIENCE (COMPUTER SCIENCE)

SCO: 207 WEB DEVELOPMENT TECHNOLOGIES

SIT 209: WEB DESIGN

DATE: 6/5/2019

TIME: 2.00-4.00 PM

INSTRUCTIONS

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

QUESTION ONE (30 MARKS)

a) Give a hyperlink example for each of the protocols listed (4 marks)

i. HTTP

ii. HTTPS

iii. FTP

iv. E-mail

b) 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

(5 marks)

c) Explain

i. How CSS compliments HTML in web design. (3 marks)

ii. Any three features implementable using CSS. (6 marks)

iii. The benefits of Client Server Model to internet (2 marks)

d) A recently opened online business involved in selling of goods, wishes to register a domain name for the company, briefly describe the steps involved to register the domain name. (5 marks)

e) Discuss any FIVE features of a good website. (5 marks)

QUESTION TWO (20 MARKS)

- a) List the qualities of a good web designer and explain each of the qualities providing references of real life application to support the quality. (5 marks)
- b) Describe each of the following types of server
 - i. Web server
 - ii. DNS server (4 marks)
- c) Differentiate between the following: (6 marks)
 - i. Thin and Fat clients
 - ii. Client and server scripting languages
- d) Explain and demonstrate the what should be in your webhosting checklist. (5 marks)

QUESTION THREE (20 MARKS)

- 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 factors to consider when choosing an ISP. (8 marks)
- d) Discuss the benefits of outsourcing web development services. (4 marks)

QUESTION FOUR (20 MARKS)

- 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 with a detailed diagram the client server architecture in a web browser (10 marks)
- c) What is web-mail. (1 mark)
- d) Distinguish between an e-mail and web mail giving advantages of each. (4 marks)

QUESTION FIVE (20 MARKS)

- a) Explain 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) Differentiate between XHTML and XML, clearly stating the application during web development. (3 marks)
- d) Write an XML code to display breakfast menu for a restaurant (7 marks)