



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)