



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)
University Examinations for 2015/2016 Academic Year

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

SECOND SEMESTER EXAMINATION FOR DEGREE IN BACHELOR OF SCIENCE INFORMATION TECHNOLOGY

SCS 209: INTERNET TECHNOLOGY

Date: 5/8/2016

Time: 2:00 – 4:00 PM

Instructions: Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) Explain the following terms (5 marks)
 - i) Bandwidth
 - ii) Gopher
 - iii) Telnet
 - iv) USNET
 - v) IRC
- b) List and explain any six facilities required for internet connection . (12 marks)
- c) Using an example explain the structure of a website address (2 marks)
- d) Explain two main ways of searching for information from the internet (4 marks)
- e) Write HTML code to insert a graphic called “my picture” in a web page and set width and height properties. (3 marks)
- f) Describe four internet standards (4 marks)

QUESTION TWO (20 MARKS)

- a) Explain five common internet protocols (10 marks)
- b) Describe five wireless broadband access used to provide both fixed and mobile internet access. (10 marks)

QUESTION THREE (20 MARKS)

- a) (i) List five factors affecting the speed of the internet (5 marks)
(ii) Explain the five factors in b(i) (5 marks)
- b) Write HTML code to give the following output (4 marks)

student	course	duration
mwangi	IT	1yr
mary	Accounts	6 months
John	programming	6 months
Otieno	Sales	1yr

- c) Describe two types of private networks organizations can create to enhance security. (4 marks)
- d) Explain the difference between internet and www (2 marks)

QUESTION FOUR (20 MARKS)

- a) Explain requirements needed for web development using HTML (10 marks)
- b) Describe the methods used to perform the following (6 marks)
i) Saving the whole web page
ii) Saving specific information on the web page
iii) Saving images
- c) Describe with the aid of an example components of an email address. (4 marks)

QUESTION FIVE (20 MARKS)

- a) With the aid of a diagram describe a client-server model for networked computer systems. (8 marks)
- b) Explain eight benefits and application areas of the internet. (8 marks)
- c) (i) Explain the acronyms Cc and Bcc (2 marks)
(i) Explain where and how each of the acronyms in (ci) are used (2 marks)