



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

CERTIFICATE IN INFORMATION TECHNOLOGY (CIT 10A)

EIT 1107: INTERNET TECHNOLOGY

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: OCTOBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer booklet*

Answer question **ONE (COMPULSORY)** in section A and any other **TWO** questions from section B

Maximum marks for each part of a question are clearly shown.

This paper consists of **THREE** printed pages

Question 1 (30 marks)

The internet has been used extensively as an electronic medium for conducting business.

- a) Define the term internets [2 marks]
- b) List four other uses of the intranets. [4 marks]
- c) Many people use the terms Internet and world-wide web interchangeably. What is the difference between the Internet and the world-wide web? [4 marks]
- d) Explain the following terms as used on the internet. [10 marks]
 - (i) Browser
 - (ii) Search engine
 - (iii) Website
 - (iv) Website
 - (v) HTML
- e) An internet user types 'http://www.example.net/index.html' in web browser. Explain the processes that take place to display the page in the browser. State the protocols that are involved. [10marks]

Question 2 (20 marks)

Given the following URL : ' http:// www.mombasapoly.ac.ke/mpuc/index.html'.

- a) Outline the segments in the above URL. [4 marks]
- b) List 6 major domain extensions used in Kenya and state what they represent [6 marks]
- c) Explain what is meant by port numbers. [2 marks]
- d) State the port numbers used by the following: [2 marks]
 - i) http
 - ii) telnet
- e) State the role of the following two in relation to internet governance. [4 marks]
 - i) ICANN
 - ii) DNS

Question 3 (20 marks)

- a) Describe the services an ISP can provide. [8 marks]
- b) Explain what is meant by Internet censorship [2 marks]
- c) Distinguish between the following terms as used on the internet [6 marks]
 - i) Intranet and Extranet
 - ii) Web server and Mail server
 - iii) signing in & log in
- d) List any **FOUR** types of internet connection. [2 marks]
- e) Explain the term proxy server. [2 marks]

Question 4 (20 marks)

- a) Explain the term protocol. [2 marks]

- b) State **TWO** protocol used by email service. [2 marks]
- c) Describe how a search engine works [4 marks]
- d) Explain barriers to business that are usually overcome when people conduct business over the internet. [8 marks]
- e) State **TWO** advantages and disadvantages of a wired internet connection. [2 marks]

Question 5 (20 marks)

- a) Briefly outline the history of the internet, stating the timeline and the major organizations involved. [10 marks]
- b) Discuss any **FIVE** prerequisites to connect to the internet [10 marks]