



# 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**

**END OF SEMESTER EXAMINATIONS**

**SERIES: AUGUST/SEPTEMBER 2011**

**TIME: 2 HOURS**

#### **Instructions to Candidates:**

Answers **MUST** be written clearly within the answer booklets provided with the exam paper  
Answer question **ONE (COMPULSORY)** and any other **TWO** questions from the list of questions below

This paper consists of **THREE** printed pages

**SECTION A (30 MARKS) – Answer all Questions in this section**

**Question 1 (Compulsory)**

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

- a) Define the term Internet (2 marks)
- b) List **FOUR** other uses of the Internet (4 marks)
- c) Many people use the terms Internet and world-wide-web interchangeably. What is the difference between the Internet and world-wide-web? (4 marks)
- d) Explain the following terms as used on the Internet (10 marks)
  - (i) Browser
  - (ii) Plug-in
  - (iii) Website
  - (iv) Webpage
  - (v) HTML
- e) An Internet user type '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. (10 marks)

**SECTION B – Answer any TWO questions**

**Question 2**

Given the following URL: 'http://www.mombasapoly.ac.ke/mpuc/index.html'. (4 marks)

- a) Explain the segments in the above URL (4 marks)
- b) List **SIX** 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) ftp
- e) state the role of the following two in relation to Internet governance (4 marks)
  - (i) ICANN
  - (ii) ISOC
- f) State **TWO** advantages of using e-mail (2 marks)

**Question 3**

- a) Describe the services and 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) Virus and Trojan horse
- d) List any **FOUR** ways of connecting to the internet (2 marks)
- e) Explain the term proxy server (2 marks)

#### **Question 4**

- a) Explain the term protocol (2 marks)
- b) State **TWO** protocol used by email service (2 marks)
- c) Describe how a search engine works (6 marks)
- d) Explain barriers to business that are usually overcome when people conduct business over the internet (8 marks)
- e) State **TWO** advantages of a wired internet connection (2 marks)

#### **Question 5**

- a) Briefly outline the history of the internet, stating the timeline and the major organizations involved (10 marks)
- b) State the advantages and disadvantages of the Internet (10 marks)