



**THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE**

**(A Constituent College of JKUAT)**

(A Centre of Excellence)

# **Faculty of Engineering & Technology**

**DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY**

**DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY &  
MAINTENANCE (DICTM SEP 10/S-FT)**

**EIT 1129: INTERNET APPLICATIONS**

**END OF SEMESTER EXAMINATION**

**SERIES: DECEMBER 2012**

**TIME: 2 HOURS**

**Instructions to Candidates:**

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions

Answer question **ONE (COMPULSORY)** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **THREE** printed pages

### Question One (Compulsory)

- a) Explain what Internet Protocols is. **(1 mark)**
- b) What is online Etiquette? **(2 marks)**
- c) Explain the concept of routing. **(2 marks)**
- d) Explain the term “Domain Name Service” (DNS) **(2 marks)**
- e) Describe the following Malware terms: **(6 marks)**
  - (i) Spyware
  - (ii) Worm
  - (iii) Virus
- f) What are the **TWO** main e-mail access protocols? **(2 marks)**
- g) Name at least **FIVE** types of services offered on the Internet. **(5 marks)**

### Question Two

- a) Identify and give examples of Institutes where e-mail addresses end with the following extensions. **(5 marks)**
  - (i) Org
  - (ii) Gov
  - (iii) Edu
  - (iv) Net
  - (v) Mil
- b) Explain the relationship between client and server computer citing difference in purpose, hardware, location and maintenance. **(9 marks)**
- c) How do the current trends in the Internet influence business and education. **(6 marks)**

### Question Three

- a) List a checklist of actions a user should take (or look for) when entering sensitive information on a website. **(5 marks)**
- b) Define the term “Search Engine”. Give examples of search engines. **(5 marks)**
- c) Explain the term “Firewall” Why it is necessary and how it is implemented. **(5 marks)**
- d) What is the Domain Naming Service? Explain how domain names are resolved on the internet. **(5 marks)**

### Question Four

- a) Draw a LAN in a star configuration and label each cence. **(5 marks)**
- b) What are the **FIVE** main advantages of using the Internet? **(5 marks)**
- c) Which classes do the following IP addresses fall into and the number of possible hosts found in each class. **(5 marks)**
  - (i) 10.100.0.124
  - (ii) 172.16.0.13
  - (iii) 192.168.0.100

d) Explain the difference between a client-server and peer to peer architecture. **(5 marks)**

**Question Five**

a) Discuss the following unethical practices and how they pose a risk on the internet. **(10 marks)**

- (i) Online fraud
- (ii) Hacking
- (iii) Denial of service
- (iv) Malware
- (v) Spamming

b) List the necessary components both hardware and software needed for a user to connect to the internet. **(5 marks)**

c) Explain how one would use an internet search engine like Google.co.ke to search for information related to the History of the Internet. **(5 marks)**