



**THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE**

**(A Constituent College of JKUAT)**

(A Centre of Excellence)

# **Faculty of Engineering & Technology**

**DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY**

**CERTIFICATE IN INFORMATION COMMUNICATION TECHNOLOGY &  
MAINTENANCE (CICTM/M12)**

**EIT 1129: INTERNET TECHNOLOGIES**

**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 **TWO** printed pages

### Question One (Compulsory)

- a) Define the following terms:
- (i) Web page
  - (ii) Firewall
  - (iii) Search engine
- (6 marks)**
- b) Differentiate between intranet and extranet. **(4 marks)**
- c) What is the role of the National Research and Education Network (NREN) on the internet? **(2 marks)**
- d) Explain what you understand by the terms world wide web **(2 marks)**
- e) Describe **FOUR** advantages of the internet. **(8 marks)**
- f) Describe **FOUR** challenges organizations encounter as they use the internet. **(8 marks)**

### Question Two

- a) Explain the benefits of extranets to an organization. **(10 marks)**
- b) (i) Define a protocol? **(2 marks)**
- (ii) Explain the use of the following protocol. SMTP, FTP, TELNET. **(3 marks)**

### Question Three

- a) What is the role of ISP's on the internet? **(2 marks)**
- b) Describe **FIVE** types of ISP's **(10 marks)**
- c) Explain the use of ISDN Standard **(3 marks)**

### Question Four

- a) (i) Define search engines using an example. **(3 marks)**
- (ii) Explain how a search engine systematically operates. **(9 marks)**
- b) Describe phishing on the internet and suggest how to overcome it. **(3 marks)**

### Question Five

- a) Describe viruses, worms and Trojan horses to show how they differ. **(6 marks)**
- b) Write brief description on the following:
- (i) Spam
  - (ii) Firewalls
  - (iii) URL
- (6 marks)**
- c) Define the terms:
- (i) Cracker
  - (ii) Hacker
- (3 marks)**