



TECHNICAL UNIVERISTRY OF MOMBASA

# Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

CERTIFICATE IN INFORMATION COMMUNICATION & MAINTENANCE  
(CICM 14S)

**EIT 1103: INTERNET TECHNOLOGIES**

END OF SEMESTER EXAMINATION

**SERIES: DECEMBER 2014**

**TIME: 2 HOURS**

**Instructions to Candidates:**

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions. Attempt 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) List out the methods used in HTTP (2 marks)
- b) Explain the following terms. (10 marks)
- (i) Hacking
  - (ii) Fire wall
  - (iii) Worm
  - (iv) DNS
  - (v) FTP
- c) Name the primary function of a web server (2 marks)
- d) What is an intranet (3 marks)
- e) What does TCP/IP stand for? (1 mark)
- f) Name the THREE parts of a URL (2 marks)

### Question Two

- a) Discuss the FOUR concepts of web. (10 marks)
- b) List any FIVE user interface elements of a web browser. (5 marks)
- c) Define the following terms: (5 marks)
- (i) Search Engine
  - (ii) Crawler
  - (iii) Indexing

### Question Three

- a) State the differences between Internet and Intranet (10 marks)
- b) Define packet switching. (3 marks)
- c) What is a proxy server (2 marks)
- d) Give the similarities between internet and intranet. (3 marks)
- e) What is Extranet (2 marks)

### Question Four

- a) Define the following terms: (8 marks)
- (i) Clients
  - (ii) File server
  - (iii) Mail server
  - (iv) Web server

- b) What does ARPANET mean (2 marks)
- c) Differentiate between POP3 and SMTP (6 marks)
- d) List any FOUR types of internet threats (4 marks)

**Question Five**

- a) What is a protocol (2 marks)
- b) Describe how browser and web servers communicate via HTTP (4 marks)
- c) Describe the FIVE layers of TCP/IP protocol suite (10 marks)
- d) Explain any TWO benefits of the internet (4 marks)