



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

CERTIFICATE IN INFORMATION COMMUNICATION TECHNOLOGY
(CICM 14S Y1 S1 – S-EV)

EIT 1104: INTRODUCTION TO ICT

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) Define the term vulnerability in reference to computer security. **(1 mark)**
- b) Discuss the objectives of information security. **(9 marks)**
- c) Write short notes on the following threats to information:
 - (i) Virus
 - (ii) Worm
 - (iii) Trojan horse
 - (iv) Spy ware
 - (v) Key loggers
- d) Explain FIVE features of an operating system. **(10 marks)**

Question Two

- a) Differentiate between drum and wheel printer. **(1 mark)**
- b) State and explain THREE factors that determine the number of people working at the ICT department. **(6 marks)**
- c) Discuss the role of the ICT director in an organization. **(5 marks)**
- d) Give a brief history on the advancement of computers from first generation to 4th generation. **(8 marks)**

Question Three

- a) Define utility software. **(2 marks)**
- b) State FOUR advantages of in-house software over packet software. **(4 marks)**
- c) State TWO tools used by network engineers in troubleshooting a network. **(2 marks)**
- d) Discuss the THREE main classifications of security controls. **(9 marks)**
- e) Explain the TWO types of attacks and give ONE example of each. **(3 marks)**

Question Four

- a) State SIX safety precautions to be observed while in the computer lab. **(6 marks)**
- b) State and explain FIVE threats to computer system and counter measures **(5 marks)**
- c) Discuss THREE advantages of flash disk memory. **(3 marks)**
- d) Discuss the role of database manager in an organization **(6 marks)**

Question Five

- a) Describe the fourth generation computer based on the: **(5 marks)**
- (i) Hardware
 - (ii) Software
 - (iii) Computing characteristic
 - (iv) Physical appearance
 - (v) Physical appearance
 - (vi) Their applications
- b) Give TWO examples of fourth generation computers. **(2 marks)**
- c) List the drawbacks of the fourth generation computers. **(3 marks)**
- b) Briefly list and explain FIVE types of input and output devices in a computer system **(10 marks)**