



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 TECHNOLOGY & MAINTENANCE

(CICTM M12)

ECT 1103: ICT FUNDAMENTALS

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: OCTOBER 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** and any other **TWO** questions
Maximum marks for each part of a question are as shown
This paper consists of **TWO** printed pages

SECTION A (COMPULSORY)

Question One (20 marks)

- a) Define the terms:
 - i) Computer software
 - ii) Information technology **(4 marks)**
- b) Give **SIX** qualities of a System Analyst. **(6 marks)**
- c) List **SIX** factors to consider when buying an application software. **(6 marks)**
- d) Describe the functions of the following system utilities:-
 - i) Language translators
 - ii) Loaders **(4 marks)**

SECTION B (Answer Any Two Questions)

Question Two (20 marks)

- a) What is importer security? **(2 marks)**
- b) Describe **SIX** environmental computer security threats. **(12 marks)**
- c) Give **SIX** benefits of using computers in management. **(6 marks)**

Question Three (20 marks)

- a) Illustrate the functional organization of a computer system. **(8 marks)**
- b) Give your projected characteristics of future computer generations. **(4 marks)**
- c) Differentiate between RAM and ROM. **(4 marks)**
- d) List **FOUR** advantages of application packages over customized applications. **(4 marks)**

Question Four (20 marks)

- a) Differentiate between system software and application software. **(2 marks)**
- b) Describe **SIX** functions of operating system software. **(12 marks)**
- c) Give **SIX** measures to control computer viruses. **(6 marks)**

Question Five (20 marks)

- a) Define ergonomics in relation to ICT. **(2 marks)**
- b) Describe **SIX** features of ergonomic design. **(12 marks)**
- c) Give **SIX** characteristics of earlier computer generations. **(6 marks)**