



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

PRE-CERTIFICATE IN INFORMATION TECHNOLOGY (13S)

EIT 1002: FUNDAMENTALS OF ICT

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2013

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** 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) What is a computer? (2 marks)
- b) What are the major characteristics of a computer (8 marks)
- c) Discuss the history of computers (8 marks)
- d) State the difference between desktop computers and laptop computers (2 marks)

Question Two

- a) List and explain THREE functional units of a computer (6 marks)
- b) Briefly describe the classification of computers according to Historical development (generations) (8 marks)
- c) Give THREE reasons why a mobile phone is regarded to be a computer (3 marks)
- d) Identify THREE advantage of using computers in banking (3 marks)

Question Three

- a) Define the following terms as used in computing.
 - (i) System
 - (ii) Computer system(4 marks)
- b) Differentiate between a computer and a computer system (2 marks)
- c) List and explain THREE functional elements of a computer system. (6 marks)
- d) Give TWO main functions of a computer input device (2 marks)
- e) By giving examples, differentiate between primary and secondary computer storage. (6 marks)

Question Four

- a) Define computer software. (2 marks)
- b) Give and explain the TWO classifications of computer software. (4 marks)
- c) List down any FOUR hardware components you can add or upgrade in a computer system. (4 marks)
- d) Define the following terms as used in computer science. (10 marks)
 - (i) Computer programmer
 - (ii) System analyst
 - (iii) System developers
 - (iv) Network engineers

Question Five

- a) Differentiate between data security and data integrity. (2 marks)
- b) Define the term computer crime (2 marks)

- c) Explain the meaning of each of the following with reference to computer crimes: **(14 marks)**
- (i) Cracking
 - (ii) Hacking
 - (iii) Tapping
 - (iv) Piracy
 - (v) Data alteration
 - (vi) Fraud
 - (vii) Trespass
- d) Define computer security. **(2 marks)**