



TECHNICAL UNIVERISTRY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATIONS FOR DEGREE IN:
BACHELOR OF SCIENCE IN MARINE MANAGEMENT (Y1 S1)

EIT 4150: INTRODUCTION TO INFORMATION TECHNOLOGY

END OF SEMESTER EXAMINATION

SERIES: APRIL 2015

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 **TWO** printed pages

Question One (Compulsory)

- a) By citing an example, in each case classify computer based on the type of data which they can manipulate or according to technology. **(9 marks)**
- b) “Computers are very important in an organization”. Justify this statement giving FOUR functions of a computer facility in an organization **(4 marks)**
- c) A student has bought a computer for use at home. An integrated software package was supplied along with the computer. The integrated package had word processor, database, spreadsheets and Art Modules:
- (i) State the purpose of each module the student may use it for. **(4 marks)**
 - (ii) Give TWO advantages of an integrated package over each separate module **(2 marks)**
 - (iii) The student wanted to play games using the computer. State any TWO input devices that the student can use to play games. **(2 marks)**
- d) Explain FIVE reasons why computer system requires secondary storage **(5 marks)**

- e) Differentiate between the TWO types of booting processes (4 marks)

Question Two

- a) Explain THREE types of storage memory found in a computer system (6 marks)
- b) Computerizing business operations may required the users of the computers to be trained. State clearly FOUR reasons for training employees on how to use computers (4 marks)
- c) Explain FOUR limitations of magnetic tapes as secondary storage devices (4 marks)
- d) Explain how a cache memory helps in improving the overall processing speeds of a computer system (6 marks)

Question Three

- a) What do you understand by the term portable computer system (2 marks)
- b) Write short notes on the following items. (8 marks)
- (i) Mouse
 - (ii) Track ball
 - (iii) Joy stick
 - (iv) Touch screen
- c) Using a well labeled diagram, identify the most important hardware components of a modern computer system and their roles in processing information (10 marks)

Question Four

- a) Perform the following computations:
- (i) $1010_2 + 101_2$ (3 marks)
 - (ii) $2567_8 + 3478_8$ (3 marks)
 - (iii) 783 to binary (2 marks)
- b) Explain the functions of an operating system (4 marks)
- c) Explain FOUR sources of computer viruses (8 marks)

Question Five

- a) Explain how to:
- (i) Create a table in a word document:
 - (ii) To save a word document in a flash disks
 - (iii) You wish to attach reference notes next to the text you are typing. Explain how you can do this and put the notes at the end of the document or at the bottom of each pages
 - (iv) In your document, you have typed some words in American spelling with “ize” which you need to change to British spelling with “ise”. Explain how you will do it.
 - (v) Create folders in windows
- b) Explain the evolution of computers based on their generation citing the most distinct technology advancements (10 marks)