



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR:
BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCE

EIT 4101: INTRODUCTION TO I.T

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: OCTOBER 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 **TWO** printed pages

Question One (Compulsory)

- a) What is a computer? (1 mark)
- b) State and explain your limitations of a computer (8 marks)
- c) Give **FIVE** reasons of using database management system (5 marks)
- d) Differentiate between the following:-
(i) Data and Information
(ii) Input device and Output device (4 marks)
- e) Advice Nakola a first year student on the factor to consider when purchasing a computer. (6 marks)
- f) Differentiate between peer-to-peer network and client-server network (2 marks)
- g) Mention some of the specific reasons for networking Personal Computers (4 marks)
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Question Two

- a) A typical computer system consists of the following major components. Explain each giving examples of each:
- (i) The Central Processing Unit (CPU)
 - (ii) Main Memory
 - (iii) Secondary Storage Devices
 - (iv) Input Devices
 - (v) Output Devices
- (20 marks)**

Question Three

- a) Computers range in size and capability. At one end of the scale are super computers, very large computers with thousands of linked micro processors that perform extremely complex calculations. At the other end in cars, Tvs, Stereo systems, calculations and appliances. Discuss the types of computers you know **(10 marks)**
- b) Differentiate between software and hardware giving THREE examples of each **(6 marks)**
- c) There are some actions that you can perform on database that would be difficult in spreadsheet, mention them **(4 marks)**

Question Four

Computer has become widely used in different field of application. In fact, the immergence of computing, technology has made the world become a global union. Discuss the applications of computers in each of the following fields, citing examples where possible. **(20 marks)**

- (i) Education
- (ii) Research
- (iii) Hospital
- (iv) Military
- (v) Medicine

Question Five

- a) What is data processing? **(2 marks)**
- b) Discuss the FIVE generations of a computer **(12 marks)**
- c) Differentiate between system software and application software, giving examples of each. **(6 marks)**