



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR:
BACHELOR OF SCIENCE IN MATHEMATICS & COMPUTER SCIENCE

ICS 2100: INTRODUCTION TO COMPUTER SYSTEMS

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) Explain the following:
- (i) Application software
 - (ii) Operating systems
 - (iii) Arithmetic and logic unit
 - (iv) Control unit
 - (v) Systems software
- (15 marks)**
- b) Explain the advantages and disadvantages of computer systems
- (10 marks)**

- c) Explain how computers are classified based on the memory size (5 marks)

Question Two

- a) Briefly explain the following features of database management systems:
- (i) Tables
 - (ii) Macros
 - (iii) Forms
 - (iv) Queries
- (10 marks)
- b) Explain the different types of relationships in database systems (10 marks)

Question Three

- a) Explain the following spreadsheet features:
- (i) Data tables
 - (ii) Charts
 - (iii) Functions
- (10 marks)
- b) Explain the importance of spreadsheets in solving business problems (10 marks)

Question Four

- a) Briefly explain the following word processing features:
- (i) Mail merge
 - (ii) Formatting
 - (iii) Headers and Footers
 - (iv) Print preview
- (10 marks)
- b) Explain the benefits and limitations of using word processor (10 marks)

Question Five

- a) Briefly explain the different types of memories (5 marks)
- b) Explain the importance of the following in computer processing:
- (i) Arithmetic and logic unit
 - (ii) Internal memory
 - (iii) Control unit
- (15 marks)