



THE TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN ARCHITECTURE (DA 12M)

EIT 2204: INTRODUCTION TO COMPUTER SCIENCE

END OF SEMESTER EXAMINATION

SERIES: APRIL 2013

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

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) (i) Differentiate between information technology and computer science. **(2 marks)**
- (ii) What is a hardware, differentiate it from a software. **(3 marks)**
- (iii) Name **THREE** functions of a database. **(3 marks)**
- b) Convert the following decimal numbers into binary:
- (i) 25
- (ii) 156
- (iii) 167
- c) (i) Describe **THREE** classifications of input devices. **(9 marks)**
- (ii) What is a microprocessor? **(1 mark)**
- (iii) State **THREE** components of spreadsheet. **(3 marks)**

Question Two

- a) (i) Describe **TWO** types of RAM. **(4 marks)**
- (ii) What is the function of ALU (Arithmetic Logic Unit)? **(2 marks)**
- b) (i) Name **FOUR** examples of spreadsheets. **(4 marks)**
- (ii) What is a national database management system? **(2 marks)**
- (iii) Define the following terms **(3 marks)**

Tables, records and fields as used in database

Question Three

Describe **THREE** file organization methods. **(15 marks)**

Question Four

- a) Name **THREE** types of errors generated by computers. **(3 marks)**
- b) Describe **THREE** functions of the Operating System. **(12 marks)**

Question Five

- a) Describe the use of the internet. **(8 marks)**
- b) (i) Describe **THREE** data processing methods. **(6 marks)**
- (ii) What is an operating system? **(1 mark)**

