

## **TECHNICAL UNIVERSITY OF MOMBASA**

# INSTITUTE OF COMPUTING AND INFORMATICS

### DEPARTMENT OF BUSINESS ADMINISTRATION

## **UNIVERSITY EXAMINATION FOR:**

#### BACHELOR OF COMMERCE / BACHELOR OF BUSINESS

## ADMINISTRATION

### EIT 4103: FUNDAMENTALS OF COMPUTER SYSTEMS

### END OF SEMESTER EXAMINATION

# PAPER A

## SERIES:AUGUST 2019

# TIME:2HOURS

#### DAT: Pick Date Aug 2019

#### **Instructions to Candidates**

You should have the following for this examination *-Answer Booklet, examination pass and student ID* This paper consists of **FIVE** questions. Attemptquestion ONE (Compulsory) and any other TWO questions. **Do not write on the question paper.** 

#### SECTION A (30 MARKS) - COMPULSORY

#### **Question One**

- **a**) What is a computer system
- b) Uhasibu Company is an accountancy and audit consulting firm. In 2016, they decided to computerize most of their functions. Clearly outline any four benefits that may be realized by the computerization process.
  (4 Marks)
- c) Distinguish between second generation computers and third generation computers (6 Marks)
- d) What is meant by the following terms as used in computing:
  - i). Application Software
  - ii). Utility Software

(1 Mark)

(3 Marks)

	e) Differentiate between RAM and ROM.	(4 Marks)
	f) Outline two drawbacks of cache memory	(2 marks)
	g) State and clearly explain the functions of the different components of the Central Pro	cessing Unit
		(6 Marks)
	h) Convert the following	
	i). $57_{10}$ to its binary equivalent	
	ii). $172_{10}$ to its octal equivalent	(4 marks)
	SECTION B (40 MARKS) ANSWER ANY TWO QUESTIONS	
Questi	on Two	
a)	By citing an example in each case, classify computers according to the type of data which	they manipulate
	or according to technology	(9 Marks)
b)	Giving examples, outline and describe the different categories of keys on the computer keys	eyboard
		(5 Marks)
c)	Ali, a first year BCOM student intends to buy a computer. Explain any three specification	ns that he should
	consider when sourcing for a computer.	(6 Marks)
Questi	on Three	
Discus	s in detail the application of computers in the following sectors:	(20 Marks)
	a) Banking	
	b) Education	
	c) Healthcare	
	d) Security	
Questi	on Four	
a)	Outline two example of each of the printers below	(4 Marks)
	i). Character printers	
	ii). Line Printers	
b)	Explain clearly what impact printers are, then state their characteristics.	(5 Marks)
c)	Explain clearly what non-impact printers are, then state their characteristics	(5 Marks)

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Write the following abbreviations in full, then describe what each of them means

- i). PROM
- ii). EPROM
- iii). EEPROM

(6 marks)

#### **Question Five**

a) Using a clearly labelled diagram, describe in detail the different hardware components of a computer system

(20 Marks)