

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 B

SERIES:AUGUST 2019

TIME:2HOURS

DATE: Pick DateAug2019

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 system unit, with reference to a computer (1 Mark)
- b) Explain the difference between computer hardware and computer software. (2 Marks)
- c) Outline two advantages of cache memory (2 Marks)
- d) Distinguish between first generation computers and second generation computers (6 Marks)
- e) Computerizing business operations may require the users of the computers to be trained. State clearly four reasons for training employees on how to use computers. (2 Marks)
- f) Highlight three sources of computer viruses. (3 marks)

h) State and clearly explain the functions of the different components of the Central Processing Unit				
	(6 Marks)			
i) Convert the following				
i). 83_{10} to its binary equivalent				
ii). 745_{10} to its octal equivalent	(4 marks)			
SECTION B (40 MARKS) ANSWER ANY TWO QUESTIONS				
Question Two				
a) By citing an example in each case, differentiate between the following terms as used in computer				
i). Primary Memory and Auxiliary Memory	(4 Marks)			
ii). Utilities Software and Operating System	(4 Marks)			
iii). System Software and Application software	(4 Marks)			
b) Highlight the characteristics of secondary memory (4 Marks)				
c) Computers have various applications in the real life situation. Highlight four application areas in which				
computers are being used at our homes.	(4 Marks)			
Question Three				
Discuss in detail the application of computers in the following sectors: (20 Marks)				
a) Banking				
b) Education				
c) Healthcare				
d) Security				
Question Four				
a) State two advantages of inkjet printers and two disadvantages of laser printers	(4 Marks)			
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)				

g) Differentiate between RAM and ROM.

(4 Marks)

Write the following abbreviations in full, then contrast their characteristics

i).	SRAM	
ii).	DRAM	(6 marks)

Question Two

a) By citing an example, outline and describe two categories of flat-panel display monitors

(6 Marks)

- b) By citing an example in each case, classify computers according to the type of data which they manipulate or according to technology (9 Marks)
- c) Giving examples, outline and describe the different categories of keys on the computer keyboard

(5 Marks)