

TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

UNIVERSITY EXAMINATION FOR:

DICT

EIT 2101: COMPUTER SYSTEMS & ORGANISATION: Type unit name.

END OF SEMESTER EXAMINATION

SERIES:APRIL2016

TIME:2HOURS

DATE: Pick DateSelect MonthPick Year

Instructions to Candidates

You should have the following for this examination -Answer Booklet, examination pass and student ID This paper consists of **FIVE** questions. Attemptany THREE questions.

Do not write on the question paper.

QUESTION ONE

a) Define the term "computer" (2 marks) b) Explain the following classes of computers i) Digital computers ii) Analog computers (6 marks) c) Explain the characteristics of computers (12 marks) **QUESTION TWO** a) Explain the components of a computerized system (12 marks) b) Explain the input-process-output concept of a computer (8 marks) **QUESTION THREE** a) Explain the components of the CPU of the computer hardware (10 marks) b) Explain any five different areas of application of computers

(10 marks)

QUESTION FOUR

a)	Define the term "ergonomics"	(2 marks)
b)	Explain the importance of ergonomics	(12 marks)
c)	Explain any three tips you would give for an ergonomic workstation	(6 marks)

QUESTION FIVE

- a) Convert the following numbers into binary
 - i) 956
 - ii) 2642
 - iii) 1737 (6 marks)
- b) Convert the following binary numbers to base 10
 - i) 10110
 - ii) 100111
 - iii) 111000 (6 marks)
- c) Explain the functions of operating systems (8 marks)