TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY

ECS 2101: Computer Systems &Organization

END OF SEMESTER EXAMINATION

SERIES:AUGUST2019

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.

Question ONE

a) Explain the meaning of the following terms
   i.   Computer Program
   ii.   Hardware   (8 Marks)
   iii.   BIT and Byte
   iv.   Hardware and Software
b) Complete the following table:

Binary	Decimal	Octal	Hexadecimal
101010	-	-	-
-	240	-	-
-	-	47	-
-	-	-	F2

(12 Marks)

Question TWO

a) Explain the meaning and importance of computer safety in relation to health issues.   (10 Marks)

b) Describe the following ICT equipment found in an organization.
    i.   Photocopier
    ii.   Fax Machine
    iii.   Telephone
    iv.   Projector
    v.   Scanner   (10 Marks)

Question THREE

a) List the SIX components of computer hardware and explain their functions.   (12 Marks)

b) Explain the different software components that can be found in any computer installation.   (8 Marks)

Question FOUR

a) Explain the memory hierarchy as used in computing providing examples of each category   (8 Marks)

b) Briefly explain any SIX input/output devices stating their area of application.   (12 Marks)

c) Briefly explain the following input/output devices stating their area of application.
    i.   Keyboard
    ii.   Mouse
    iii.   Monitor
    iv.   Barcode reader
    v.   Plotter
    vi.   Printer   (12 Marks)

Question FIVE

a) Describe the roles of any FIVE computer personnel found in an ICT organization   (10Marks)

b) Explain the classification of computers with respect to size.   (8 Marks)

c) Explain the meaning of the term ergonomics.   (2 Marks)

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