

# TECHNICAL UNIVERSITY OF MOMBASA

# **EXAMINATION RUBRIC**

SERIES : DECEMBER2016

FACULTY : Institute of Computing and Informatics

DEPARTMENT : Select department

CLASS :

BSEE/16S/J+FT-(EEE) BACHELOR OF SCIENCE

ELETRICAL

**ENGINEERING** 

Type class Name Type class Name

Type class Name

Type class Name

MODE OFFERED : Type class Name Type class Name

Departmental paper

UNIT CODE : COMP4112: FUNDAMENTALS OF COMPUTING

Type unit code: Type unit name.

Type unit code: Type unit name.

EXAM DURATION : 2 Hours

NO. OF STUDENTS : 50

DATE OF SUBMISSION: Pick DateDec2016

# **INSTRUCTIONS TO CANDIDATES**

The paper consists of Choose Nochoose Sect/Quest. AttemptChoose instruction.

NAME OF SETTER : JEFWA NGOMBO SIGNATURE:

NAME OF MODERATOR :SIGNATURE:	NAME OF MODERATOR	:	SIGNATURE:
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**EXAM TWO** 



# TECHNICAL UNIVERSITY OF MOMBASA

## INSTITUTE OF COMPUTING AND INFORMATICS

Select department

## **UNIVERSITY EXAMINATION FOR:**

# BACHELOR OF SCIENCE ELECTRICAL ENGINEERING COMP4112: FUNDAMENTALS OF COMPUTING END OF SEMESTER EXAMINATION

**SERIES:**DECEMBER2016

TIME:2HOURS

DATE: Pick Date Dec 2016

#### **Instructions to Candidates**

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of Choose No questions. AttemptChoose instruction.

Do not write on the question paper.

## **Question ONE**

A) Distinguish between a computer device and a calculator

(2 marks)

B) Identify and distinguish the categories of computers in terms of processing performance, size, secondary storage capacity, and application

(10 marks)

C) The following components determine the processing performance of a compute Explain the meaning of their terms, their function and units of measure of performance.	
(i) Processor,(ii) RAM, (iii) processor cache, (iv) type of processor design.	(8 marks)
D) Explain the meaning of software applications	(2 mark)
E) Identify any four software applications and explain their use	(8 marks)
Question TWO	
a) Explain the various forms of data representation and organization from physical	to logical levels.
	(10 marks)
b) (i) explain the term input device in computing	
(ii) Identify and explain input devices for the following forms of input data and character data, capture of text document for editing, photo image capture, video capture, direct capture of voice, input from music instrument	•
	( 10 marks)
Question THREE	
a) (i)Explain the binary representation and use of the following number system in coheracterists	omputing: Denary, Binary and
(ii) Character A is represented by decimal code no 65. In the ASCII. Convert this code	e into binary form using ASCII
	(4 marks)
b) Explain the meaning mobileApp and describe the functions and use of any four	mobileApp software
<ul> <li>( 5 marks)</li> <li>c) Explain the meaning of social networking application software and describe resp four such software.</li> </ul>	ective function and use of an
	(5 marks)
Question FOUR	
a) Explain the meaning of the following types software by use and describe their r	espective functions and one

(i)

example for each type:

operating system

( 6 marks)

(ii) utility software	( 4 marks)
b) explain the difference between intranet and extranet (4 marks)	
c) Explain the any three software tools for computer maintenance	
cy Explain the any times solutions to compater maintenance	(6 marks)
Question FIVE	
Question 11 v E	
a) Explain the steps in the process of computer program development	
	(5 marks)

c) Explain any four programming tools (8 marks)

b) Explain the meaning of computer algorithm

d) Use of computers entails the taking of precautions against some associated threats. Identify and briefly explain three security requirements and one example measure against a threat in computing.

(6 marks)

(1 marks)