

TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

CERTIFICATE IN INFORMATION TECHNOLOGY & MAINTENANCE (CICM 13S)

EIT 1102: FUNDAMENTALS OF COMPUTER & OPERATING SYSTEM

END OF SEMESTER EXAMINATION SERIES: DECEMBER 2013
TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet

This paper consists of **FIVE** questions. Attempt question **ONE** and any other **TWO** questions Maximum marks for each part of a question are as shown This paper consists of **THREE** printed pages

Question One (Compulso)ry))
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- a) Differentiate between a network and intelligent terminal (3 marks) **b)** Discuss the functions of the following devices (4 marks) Image scanner (i) Fax machine (ii) (iii) Bar code readers Character and mark recognition devices (iv) c) State TWO devices used for voice input (1 mark) **d)** Differentiate between the TWO main types of computer storage (4 marks) **e)** Describe the function of the following registers: (8 marks) (i) Status (ii) Control (iii) Data-in (iv) Data-out Explain the use of:: Active partition (ii) Primary partition (iii) Extended partition (6 marks) g) State and explain TWO instances when one will be required to format a hard disk (2 marks) **Question Two** a) Discuss THREE types of character and mark recognition or scanners (6 marks) **b)** Differentiate between RAM and ROM (4 marks) c) State and explain THREE types of RAM and THREE types of ROM (6 marks) **d)** List the draw backs of the first generation computers (4 marks) **Question Three a)** State and explain the function of the components of the CPU (8 marks) **b)** Discuss the following start modes: (i) Safe mode (ii) Safe mode with networking support (iii) Safe mode with command prompt (iv) Last known good configuration (8 marks)
- **c)** The following file name extensions are commonly used state the format of data information they represent:
 - doc

- jpg
- ppt
- zip

Question Four

a) State and explain FOUR factors to consider when selecting an operating system	(4 marks)
b) Discuss THREE classifications of computer	(8 marks)
c) State TWO examples of system and TWO application software	(2 marks)
d) State TWO examples of system and TWO application software	(2 marks)
e) Give the difference between CD-R and DVD-R	(2 marks)
f) State TWO devices used for audio input	(2 marks)
Question Five	
a) Discuss the data processing cycle	(4 marks)
b) Explain THREE advantages of flash memory storage.	(6 marks)
c) Give TWO examples of impact printers	(2 marks)
 d) Discuss computer hardware under the following subtopics (i) Input (ii) Output (iii) Storage (iv) Processor 	(8 marks)