

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN TECHNOLOGY ELECTRICAL AND ELECTRONICS

ENGINEERING

ETI 2302: COMPUTER APPLICATIONS II

SERIES:AUGUST2019

TIME:2HOURS

DATE:4Aug2019

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) Using a simple diagram, define a Computer.(b) (i) Define Computer generation	(2mks)
(ii) Briefly describe the Computer generations.(c) State four disadvantages of computers.	(12mks) (4mks)
(d) Describe the booting process of Computers.	(4mks)
(e) Define and describe the history the internet.	(4mks)

(f) Differentiate between network operating system and real time operating system

(4mks)

Question TWO

(a) Explain the purpose of the following computer hardware components;

- (i) CPU
- (ii) BIOS
- (iii) CACHE
- (iv) RAM

 (iv) RAM (b) Discuss the classification of computers. (c) Describe four minimum hardware requirements for operating system in Question THREE (a) Differentiate between a Static RAM and a Dynamic RAM. (b) Discuss the functions of an Operating System. (c) Explain the purpose of wearing a wrist band when handling Computers. (d) Differentiate between SATA and PATA interfaces as applied in Hard d 	(6mks) (4mks) (10mks) (2mks)
Question FOUR	
 (a) Describe the motherboard architecture of a Computer. (b) Explain the purpose of the following system software; (i) Drivers 	(10mks)
(ii) Database Management system(iii) Utility programs	
(iv) Antivirus	
(c) Describe the operation of a light pen and a digitizer.	(6mks) (4mks)
Question FIVE	
(a) List ten computer input devices.	(5mks)
 (b) Differentiate the operation of an inkjet printer and LaserJet printer. (c) Briefly describe the following types of memory; (i) ROM (ii) PROM (iii) EPROM 	(4mks)
(iv) EEPROM	(4mks)
(d) Explain the following internet terminologies;(i) Browser	
(ii) Search Engine	
 (iii) www (iv) Website (e) State three technologies for connecting mouse peripheral to a compute 	(4mks) er. (3mks)