



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

UNIVERSITY EXAMINATION FOR:

CERTIFICATE IN TECHNOLOGY ELECTRICAL AND ELECTRONICS

ENGINEERING

EIT1131: 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 **FOUR** questions. Attempt **ALL** questions.

Do not write on the question paper.

Question ONE

- (a) Using a block diagram define a Computer. **(2mks)**
- (b) Differentiate between computer hardware and computer software. **(4mks)**
- (c) Briefly discuss the computer generations. **(10mks)**
- (d) List ten computer input devices. **(10mks)**
- (e) Explain the cooling system of a computer. **(4mks)**

Question TWO

- (a) Outline five computer motherboard interfaces. **(5mks)**
- (b) Describe the following types of memories;
- (i) ROM
 - (ii) PROM
 - (iii) EPROM
 - (iv) EEPROM **(4mks)**
- (c) Discuss the functions of Operating system. **(10mks)**
- (d) Differentiate between DATA and INFORMATION. **(1mk)**

Question THREE

- (a) (i) Define a BIOS
- (ii) Describe the booting process of a computer. **(5mks)**
- (b) Explain the following;
- (i) Software and Program.
 - (ii) System software and Application software. **(4mks)**
- (c) Describe the motherboard architecture of a computer. **(10mks)**
- (d) State four types of application software. **(1mk)**

Question FOUR

- (a) Differentiate between Static and Dynamic RAM. **(4mks)**
- (b) Differentiate between Browser and Search engine giving example for each. **(6mks)**
- (c) Discuss the application of computers. **(10mks)**

Question FIVE

- (a) Describe the operation of the following monitors;
- (i) LCD
 - (ii) LED
 - (iii) CRT **(6mks)**
- (b) Distinguish between inkjet printers and LaserJet printers. **(4mks)**
- (c) Describe the characteristics of computers. **(10mks)**

