



MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

FIRST YEAR SECOND TERM EXAMINATION FOR

DIPLOMA IN ELECTRICAL ENGINEERING

TELECOMMUNICATION

INTRODUCTION TO INFORMATION AND COMMUNICATION TECHNOLOGY

DATE: 11/6/2021

TIME: 8.30-11.30 AM

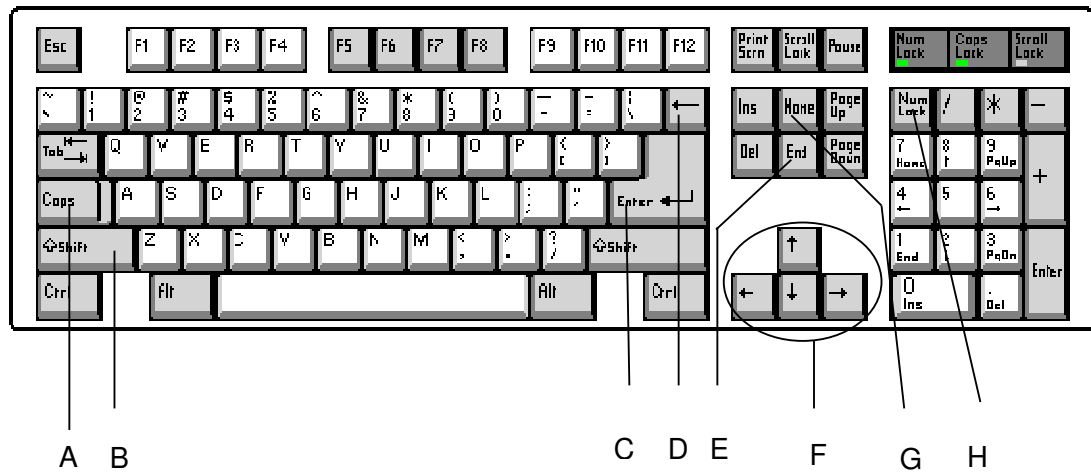
INSTRUCTIONS

Answer Question one and any other two questions

1. a) Explain the differences between the following terms as used in ICT
- i. Data and Information
 - ii. RAM and ROM
 - iii. CU and ALU
 - iv. Network and Internet (8 marks)
- b) By classification, match the computer peripheral hardware components listed below with the various categories of peripherals: (6 marks)

Peripheral category	Peripheral hardware device/medium
Input devices	Floppy disk, microphone, floppy disk drive,
Output devices	projector, mouse, VDU monitor, digital camera,
Secondary storage devices	printer, CD-R, speaker, flash memory, keyboard,
Secondary storage media	CD-RW drive, hard disk, bar code reader, bank ATM card, graph plotter and scanner.

- c) Explain the use of *any six* of the following keys labelled A to H on the picture of the computer keyboard below: (6 marks)



- 2
 - a) Explain the different types of operating systems (6 marks)
 - b) Explain **four** reasons why a *mobile phone* is regarded as a computer (4 marks)
 - c) Classify the following software as either operating system or application software
MS windows, sage, novel, Linux, WordPerfect, Unix, Lotus 1-2-3, MS Access
 (4 marks)
 - d) Explain the three main types of computer networks (6 marks)
- 3
 - a) Explain any **five** social implications of the introduction of computers to the modern Society (10 marks)
 - b) Explain any **five** disadvantages of computers (5 marks)
 - c) Explain any five factors to consider when buying computer software (5 marks)
- 4
 - a) List **three** examples of word processing packages currently in the market (3 marks)
 - b) Purity was going through a document and saw the term word processing. As a computer expert explain to her its meaning (3 marks)
 - c) Explain any Five factors to consider when buying computer Hardware (5 marks)
 - d) Explain the components of a computer system (3 marks)
 - e) Explain the different alignment found in MS Word (4 marks)
 - f) Distinguish between *sabotage* and *hacking* as used in data security (2 marks)
- 5
 - a) Explain any **five disadvantages** of computerization in an organization (10 marks)
 - b) Explain the mouse technique (3 marks)
 - c) List different types of computers (3 marks)
 - d) Explain the meaning of the following terms as used in *computer security*
 - i. Eavesdropping
 - ii. Biometrics
 - iii. Audit trails
 - iv. Hacking (4 marks)

- 6 a) Define the term computer (2 marks)
- b) Explain any **five** negative impacts of computers (10 marks)
- c) Explain any six uses of internet (6 marks)
- d) Define the term Input device (2 marks)
- 7 a) Explain the following functionalities of a mouse
- i. Right click
 - ii. Double clicking
 - iii. Drag and drop (6 marks)
- b) State difference between the following terms as used in computer systems:
- i. Soft copy and Hard copy
 - ii. Output devices and Input device (8 marks)
- c) Describe the following types of computers
- i. Digital computers
 - ii. Dedicated computers
 - iii. Special computers (6 marks)
- 8 a) The hard disk is the most popular backup device. Analyze **three** reasons why this is so. (6 marks)
- b) Explain **four** reasons why a computer is considered as a powerful tool. (8 marks)
- c) Describe any two mouse techniques and indicate how they interact with icons in a GUI. (6 marks)