



MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

FIRST YEAR FIRST TERM EXAMINATION FOR

DIPLOMA IN SUPPLY AND CHAIN MANAGEMENT

DIPLOMA IN SALES AND MARKETING

DIPLOMA IN HUMAN RESOURCE MANAGEMENT

INTRODUCTION TO INFORMATION AND COMMUNICATION TECHNOLOGY

DATE: 11/6/2021

TIME: 8.30-11.30 AM

INSTRUCTIONS

1. You should have the following for this examination:-
 - Answer booklet
2. Answer four of the six questions in this question paper.
3. All the questions carry twenty marks

Candidates should check the question paper to ensure that all the pages are printed as indicated and that no questions are missing

QUESTION ONE

- a) Categorize the following components as either input, output or storage devices. (8 marks)
Mouse, Printer, Projector, Light pen, Joystick, Plotter, Compact Disk, Hard Disk,
- b) Discuss three components of the Central Processing Unit. (6 marks)
- c) The following table is an extract from Ms Excel program. Use it to answer the questions that follow.

	A	B	C	D	E	F	G
		TERM II, PERFORMANCE 2021					
2	NAMES	ENG	MUSIC	RELIGIOUS STUDIES	AGR I	TOTAL/ Student	LOWEST
3	Netanyau	78	78	86	85		
4	Mandela	69	85	52	74		
5	Museveni	85	85	63	75		
6	Arafat	69	45	68	52		
7	Putni	85	47	57	23		
8	TOTAL/ SUBJECT						
9	MEAN/ SUBJECT						

Using cell references and possible functions write formulas that be used to calculate:

- total score per subject (2 marks)
- mean per subject (2 marks)
- Compute the lowest score per student. (2 marks)

QUESTION TWO

- Describe the following types of data processing modes as used in ICT. (6 marks)
 - Distributed processing
 - Batch processing
 - Time sharing
- Shauri Yako enterprises, is on a mission to acquire new software for their brand new computers. Explain four factors that they may consider when purchasing the programs. (8 marks)
- With the aid of well labeled diagrams, outline the following categories of computer network topologies. (6 marks)
 - Bus topology
 - Tree topology
 - Star topology

QUESTION THREE

- Differentiate between special purpose and general purpose computers giving examples on their areas of application. (4 marks)
- Differentiate between analogue and digital data as used in computers. (4 marks)
- List four examples of utility software as used in computers. (4 marks)
- With the aid of examples in each case, describe each of the following terms as used in ICT

- i. Search engine
- ii. Browser
- iii. Internet
- iv. Information security (8 marks)

QUESTION FOUR

- a) Hapa Kule Corporation are on a mission to use e-commerce in her business operations. Explain two challenges the organization is likely to face. (4 marks)
- b) With the aid of a well labeled hierarchical chart, describe the categories of computer software. (6 marks)
- c) With the aid of diagrams, differentiate Bar chart and area chart as used in spreadsheets. (4 marks)
- d) Describe the function of the following networking tools as used in network setup and installation.
 - i. Hub (2 marks)
 - ii. Switch (2 marks)
 - iii. Repeater (2 marks)

QUESTION FIVE

- a) Outline the procedure of creating tables in Ms Word program. (4 marks)
- b) Outline three mouse techniques as used in computers. (3 marks)
- c) Outline five errors that may be encountered while using spreadsheet program. (10 marks)
- d) Outline the use of the following keyboard keys as used in computer applications.
 - i. Num lock (1 mark)
 - ii. Enter key (1 mark)
 - iii. Spacebar (1 mark)

QUESTION SIX

- a) Outline four functions of an operating system (4 marks)
- b) Outline four parts of a computer keyboard. (4 marks)
- c) Differentiate between impact and non-impact printers. (4 marks)
- d) Explain the following types of data as used in spreadsheets.
 - i. Values (2 marks)
 - ii. Labels (2 marks)
 - iii. Functions (2 marks)
 - iv. Formulas (2 marks)