



MACHAKOS UNIVERSITY

University Examinations for 1518/1519

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

FIRST YEAR SECOND SEMESTER EXAMINATION FOR

DIPLOMA IN SUPPLY AND CHAIN MANAGEMENT (TVET)

DIPLOMA IN HUMAN RESOURCE MANAGEMENT (TVET)

DIPLOMA IN SALES AND MARKETING (TVET)

DIPLOMA IN INFORMATION SCIENCE (TVET)

INTRODUCTION TO INFORMATION AND COMMUNICATION TECHNOLOGY

DATE: 23/4/2019

TIME: 2.30-5.30 PM

INSTRUCTIONS

1. Answer four of the six questions in this question paper.
2. All the questions carry 15 marks

QUESTION ONE (15 MARKS)

- a) Discuss two classifications of computer memory. (4 marks)
- b) 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
1	TERM III, PERFORMANCE 1519						
2	NAMES	ENG	MUSIC	RELIGIOUS STUDIES	AGRI	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						
10	GRADE						

- c) Using cell references and possible functions write formulas that be used to calculate:
- i. total score per subject (2 marks)
 - ii. mean per subject (2 marks)
- d) Identify any possible formatting features that may have been applied in the above spreadsheet extract. (4 marks)

Grading scale (Use this to answer question ii above)

Distinction	Credit	Pass
70-100	60-69	40-59

Table 1

- e) Table 1, shows the criteria used to award a grade to a student. Use this criteria to compute the grade for each Netanyahu (3 marks)

QUESTION TWO (15 MARKS)

- a) Outline *four* types of computer networks. (4 marks)
- b) Shauri Yako enterprises, is on a mission to acquire new software for their brand computers. Explain *four* factors that they must put into consideration when purchasing the programs. (8 marks)
- c) With the aid of well labeled diagrams, outline *three* types of computer network topologies. (3 marks)

QUESTION THREE (15 MARKS)

- a) Differentiate between *special purpose* and *general purpose* computers giving examples on their areas of application. (4 marks)
- b) With the aid of a diagram, illustrate the data processing life cycle. (3 marks)
- c) With the aid of examples in each case, describe each of the following terms as used in ICT. (8 marks)
- i. Search engine
 - ii. Browser
 - iii. Internet
 - iv. Information security

QUESTION FOUR (15 MARKS)

- a) With the aid of a well labeled hierarchical chart, describe the categories of computer software. (5 marks)
- b) Elaborate on the use of the following types of *views* in Ms Word. (10 marks)

- i. Print layout view
- ii. Full Screen reading view
- iii. Web layout view
- iv. Outline layout view
- v. Draft layout view

QUESTION FIVE (15 MARKS)

- a) Outline the procedure of creating tables in Ms Word program. (4 marks)
- b) Explain *four* functions of operating systems. (8 marks)
- c) Outline three mouse techniques as used in computers. (3 marks)

QUESTION SIX (15 MARKS)

- a) Outline any four functions of an operating system (4 marks)
- b) Outline *four* parts of a computer keyboard. (4 marks)
- c) Outline three benefits of databases over traditional way of data storage. (3 marks)
- d) Define each of the following terms as used in ICT.
 - i. Firewall (2 marks)
 - ii. Application software (2 marks)