



MACHAKOS UNIVERSITY

University Examinations for 2020/2021

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

FIRST YEAR SECOND SEMESTER EXAMINATION FOR

DIPLOMA IN FOOD AND BEVERAGE

DIPLOME IN AUTOMOTIVE ENGINEERING

INFORMATION COMMUNICATION TECHNOLOGY

DATE: 7/9/2021

TIME: 8:30-11:30 AM

Instructions:

Answer any **FOUR** Questions

Don't write on this question paper

QUESTION ONE

- a) Outline **two** disadvantages of a keyboard as an input device. (4 marks)
- b) Explain **four** negative impacts of ICT in a society. (8 marks)
- c) The management of Albano Company intends to acquire software for the organization. Explain **four** factors they should consider. (8 marks)

QUESTION TWO

- a) During a computer software lesson a lecturer taught about the functions of operating systems. Describe **four** of such functions. (8 marks)
- b) Explain the function of the following terms as used in computers:
 - i. Control unit;
 - ii. Arithmetic Logic unit;
 - iii. Secondary Storage. (6 marks)
- c) Outline **two** characteristics of third generation computers. (2 marks)
- d) Differentiate between *relative* and *absolute* references as used in computers. (4 marks)

QUESTION THREE

- a) Explain **four** reasons that could make a student prefer a laptop over a desktop computer. (8 marks)
- b) Describe **two** differences between super computers and mainframe computers. (4 marks)
- c) There has been an increase in the use of smart phones by students. Explain **four** ways in which these devices can be used in learning. (8 marks)

QUESTION FOUR

- a) Describe two reasons that may prompt a computer user to perform a warm boot. (4 marks)
- b) Charles intends to create a table in a word processing document. Describe two methods that he would use to achieve his objective. (4 marks)
- c) Describe the function of the following Database features:
- i. Form;
 - ii. Query. (4 marks)
- d) Briefly explain the following word processing features:
- i. Find and Replace;
 - ii. Thesaurus;
 - iii. Autocorrect. (6 marks)
- e) Define a computer virus. (2 marks)

QUESTION FIVE

- a) Study the spreadsheet below of marks of two students in a diploma in ICT class at Machakos university and answer the questions that follow:

	A	B	C	D	E	F
1	NAME	C. A	MATHS	PROG.	TOTAL	
2	JOHN	45	18	28		
3	MARY	75	56	59		
4						

Using cell references only, write down the formula that can be used to calculate the following:

- i. Total marks obtained by the two students in PROG (programming).(2 marks)
 - ii. The highest mark obtained by Mary in the three units. (2 marks)
 - iii. Count the number of students who scored 50 and above in Maths. (2 marks)
 - iv. Using the IF function, grade the students with the following criteria;
Total marks >150 , Pass
Total marks <150 , Fail (4 marks)
- b) Differentiate between the following pair of terms in reference to spreadsheets:
- i. Formulae and Functions; (2 marks)
 - ii. Sorting and Filtering. (4 marks)
- c) Differentiate between *impact* and *non impact* printers. (4 marks)