MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)
University Examinations for 2013/2014
DEPARTMENT OF COMPUTING AND APPLIED SCIENCE
End of Term Examination for Diploma in Electrical/Telkom Module I
Information Communication Technology

Date: **Time: 2** Hours

Instructions:
Answer all questions

Question One

Differentiate between the following pairs of terms in respect to spreadsheets

a. Value and label

b. Formulae and function

c. Worksheet and workbook

d. Filtering and Sorting

e. Relative and Absolute referencing   (10 marks)

Question Two

Describe the **four** components of a worksheet   (8 marks)

Question Three

a. The table below shows the budget of a student. The student intends to have spent half the amount by mid- term. Given that the value 0.5 is typed in cell b9, write the shortest formulae that would be typed in cell C2 and then copied down to obtain half the values.   (4 marks)

	A	B	C
1	ITEM	AMOUNT	MID TERM
2	FARE	200	
3	STATIONERY	50	
4	MEALS	500	
5	MISCELLANEOUS	150	
6	TOTAL		

b. Using functions indicate the expression that would be used to obtain the total in cell B6 and cell C6 (4 marks)

Question Four

Five students, Jane, June, Jacob, Jan and James scored the following marks in an ICT class: 60, 56, 89, 74, and 23 respectively

a. Draw an appropriate spreadsheet to present the above information. (5 marks)

b. Grades were allocated as follows. A>=80, B>=70, C>=60, D>=50, any mark below 50 is E. Use the appropriate expression to determine the grade scored by each of the students. (5 Marks)

Question Five

Illustrate the software family tree (10 marks)

Question Six

Explain **five** factors that you would consider when selecting software. (10 marks)

Question Seven

a. Briefly explain any **four** functions of operating systems. (8 marks)

b. Differentiate amongst the following operating systems (6 marks)

    i.   command driven

    ii.   menu driven

iii.   Graphical User Interface