THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

CERTIFICATE IN COMPUTER NETWORKS & MAINTENANCE
CMNT 10A

EIT 1118: COMPUTER APPLICATIONS

SPECIAL/SUPPLEMENTARY EXAMINATION
SERIES: OCTOBER 2011
TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination
- *Answer booklet*
- *Calculator and SMP Tables can be used*

Answer question **ONE (COMPULSORY)** in section A and any other **TWO** questions from section B
Maximum marks for each part of a question are clearly shown.

SECTION A – Compulsory

Question 1 (30 marks)

a) Explain the following:

    i.   Motherboard
    ii.   Source code
    iii. Operating System   **[6 marks]**

b) By use of a diagram, Explain the functions of the various components of the computer   **[8 marks]**

c) Explain the characteristics and salient technological features of the following computer generations:

    i.   First generation computers
    ii.   Second generation computers
    iii. Third generation computers
    iv. Fourth generation computers   **[16 marks]**

SECTION B (ANSWER ANY TWO QUESTIONS)

Question 2   (20 marks)

a) Explain the following networks

    i.   LAN
    ii.   WAN
    iii. Internet
    iv. Extranet   **[8 marks]**

b) Explain the functions of the following keys as used in Ms Word.

    i.   Backspace
    ii.   Caps Lock   **[4 marks]**

c) Explain the following terms as used in spreadsheets:

    i) Workbook
    ii) Chart wizard
    iii) Absolute cell address
    iv) Relative cell address   **[8 marks]**

Question 3   (20 marks)

a) State any **Four** areas where spreadsheets are applicable.   **[4 marks]**

b) Explain any **four** advantages of using electronic spreadsheets over manual spreadsheets.   **[8 marks)**

c) Explain the difference between the following terms:

        "Copy and Paste" and "Cut and Paste".   **[4 marks]**

d) Explain the difference between RAM and ROM. **[4 marks]**

Question 4   (20 marks)

Discuss the differences between machine code, assembly language and high level language in terms of:

      i.)   Instruction set
      ii.)   Translation
      iii.)   Characteristics   **[20 marks]**

Question 5   (20 marks)

Study the document below.

MOMBASA CITY RAHA BUS DEPARTURE SCHEDULE.

REG	COMPANY	ROUTE	TIME
KAC 345B	HIGHWAY CARRIERS	MSA-DAR	9.30PM
KZX 456	SUPERCOACHES	MSA-MALABA	10.00PM
KAP 354K	JOY RIDERS	MSA-NAIROBI	1.00PM
KZW 213	MOMBASA COMFORT	MSA-KSM	12.30AM

OUR RULES WHEN BUSES ARE ENROUTE
- ✓ No alcoholic drinks
- ✓ No monetary transactions with our staff
- ✓ Don't accept foodstuffs from suspicious passengers

a) State **ten** formatting styles applied to the above document. **[10 marks]**

b) Data logic Ltd has set up the table shown below using Ms-excell.

	A	B	C	D	E	F

1	Product	Units	Cost per unit	Total cost	VAT	Commission
2	Keyboards	30	200			
3	Hard disks	15	900			
4	Floppy drives	10	500			
5	Ram-memory	21	950			
6	Casings	34	2,000			
7	Processors	18	12,000			
8						

Using the information given determine the following

    i.   A formula that generates the total cost at cell D3.
    ii.   A formula that generates the VAT at 16% of total cost at cell E5.
    iii.   A formula that generates the commission at 2% of total cost F4
    iv.   A function that generates the grand total cost at cell D8.
    v.   A function that generates the number of products at cell A8

[10 marks]