



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.

This paper consists of **FOUR** printed pages

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.

<u>REG</u>	<u>COMPANY</u>	<u>ROUTE</u>	<u>TIME</u>
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
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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]