Name:	
Name: Adm No. 451/1 COMPUTER STUDIES Paper 1 July / August 2014 2 ½ Hours	
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COMPUTER STUDIES Paper 1	
July / August 2014 2 ½ Hours	
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MMS JOINT EXAMINATION 2014

Kenya Certificate of Secondary Education (K.C.S.E)

451/1 COMPUTER STUDIES Paper 1 July / August 2014

2 ½ Hours

INSTRUCTIONS TO CANDIDATES

- Write your name and index number in the spaces provided above.
- > Sign and write the date of the examination in the spaces provided above.
- Answer all the questions in section A
- Answer question 16 and any other THREE questions from section B.
- ➤ All answers should be written in the spaces provided on the question paper.

For Official Use only

Question	Candidate's Score
1 – 15	
16	
17	
18	
19	
20	
TOTAL SCORE	
	1 – 15 16 17 18 19 20

School:....

This paper consists of 12 printed pages

Candidates should check the question paper to ensure that all the printed pages are printed as indicated and no questions are missing.

SECTION A 40 MARKS)

Answer ALL the questions in this section in the spaces provided

	1.	Define the following	
		Define the following (i) Information	(1mk)
		www.i	
		(ii) Information Technology.	(1mk)
			•••••
		(iii saniormation systems.	(1 mk)
	4	ÇCEÎ [®] .	
	e 2.	Distinguish between the following pairs of terms:-	•••••
40,5	, —·	(i) Assemblers and compilers.	(1mk)
5°			
		(ii) Source code and object code.	(1mk)
	3.	Differentiate between LPT ports and USB ports as used in Computer Printers.	(2mks)
	4.	Explain why the following are harmful to a computer.	
		(i) Magnets	(1mk)
			•••••
		(ii) Water	(1mk)
		(2)	, ,
	5.	State four ways of minimizing the effects of radiation from the display screens.	(2mks)

	com	
14.	Explain the importance of internet services to our society.	(2mks)
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	$\mathcal{A}_{\mathcal{O}}$	
15.	State any four security control measures that can be taken to	
	systems against computer crimes.	(2mks)
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SECTION B 60 MARKS)

## Answer question 16 and any other three questions from this section.

16.	a) List two examples of:	
	(i) third generation languages	(2mks)
	Etc	
	and the second s	
	a) List two examples of:  (i) third generation languages and the state of the state	
	ζ. O	
	(ii) Object oriented languages.	(2mks)
	LEST CONTRACTOR OF THE PARTY OF	
e. E. Lee	······································	
(e)		
,	b) Draw a flowchart that can be used to accept marks of 40 student	s in a class in three subjects
	and calculate the average mark then print the results.	(6mks)

		con contract the contract to t	
		e to a second	
	18.	(i) Differentiate between BCD and EBCDIC codes as used in symbolic representations of the codes as used in symbolic representations.	entation in
		computers.	(4mks)
		Why.	
		<del></del>	
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\$ot hote	,e [©]	······································	• • • • • • • • • • • • • • • • • • • •
٠,	\$ ⁵		• • • • • • • • • • • • • • • • • • • •
40,5		(ii) State one advantage and one disadvantage of using multi-processing.	(2mks)
&OA			
		(iii) State a situation where multi-processing would be appropriate.	(1mk)
		(iv) Describe four ways in which computers can be used in education.	(8mks)
			• • • • • • • • • • • • • • • • • • • •
			• • • • • • • • • • • • • • • • • • • •

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20.	a) Distinguish between the following sets of terms as used in spreadsheets	
	(i) Worksheet and workbook.	(2mks)
	(ii) Filtering and sorting.	(2mks)
	b) State one way in which a user may reverse the last action taken in a spreads	
	kest.	(1mk)
& Lee		
e ,	c) The following is a sample of a payroll. The worksheet row and column hea	dings are

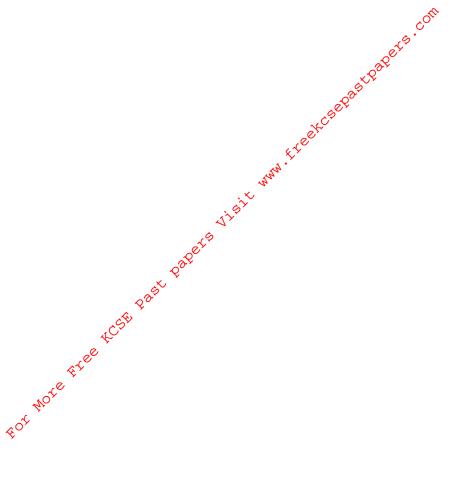
c) The following is a sample of a payroll. The worksheet row and column headings are marked 1,2,3..... and A,B,C..... respectively.

	A	В	С	С	D	Е	G	Н
1	NAME	HOURS	PAY	BASIC	ALLOWANCES	GROSS	TAX	NET
		WORKED	PER	PAY		PAY	DEDUCTION	PAY
			HOUR					
2	KORIR	12	1500					
3	ATIENO	28	650					
4	MUTISO	26	450					
5	ASHA	30	900					
6	MAINA	18	350					
7	WANJIKU	22.5	500					
8	WANYAMA	24.5	250					
9	OLESANE	17	180					
10	MOSETI	33	700					
ТО	TALS							

Use the following expressions to answer the questions that follow

- Basic pay = Hours worked x pay per hour
- Allowances are allocated at 10% of basic pay
- Gross pay = Basic pay + allowances
- Tax deductions are calculated at 20% of gross pay.
- Net pay = Gross pay tax deductions.

	com	
Write f	ormulae using cell references for the following cells:	
(i) D2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	(1mk)
	VC CO	• • • • • • • • • • •
(ii) E4	The Ete	(1mk)
(iii) F	10 oet 6	(1mk)
	<del>v</del> o ⁶	
(iv) G		(1mk)
& fee t	·	
\$ ²		
(v) H5		(1mk)
(d) (i)	State three ways of moving round a page in Desktop Publishing window.	(3mks
(ii)	State two ways on how Information and Communication Technology (ICT) can	
(11)	reduce the spread of HIV/AIDS.	(2mks



**END** 12