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SCHOOL	<u> </u>	CANDIDATE SIGNATURE
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451/1 COMPUTER STUD (THEORY)	IES TE	

COMPUTER STUDIES
(THEORY)
PAPER 1
JULY/AUGUST 2013
TIME: 2¹/₂HOURS

LENOCET EVALUATION TEST KENYA CERTIFICATE OF SECONDARY EDUCATION

451/1 COMPUTER STUDIES (THEORY) PAPER 1 JULY/AUGUST 2013 TIME: 2¹/₂ HOURS

INSTRUCTIONS TO CANDIDATES

- * Answer **ALL** questions in section **A**.
- ❖ Answer question **16** compulsory and any other **THREE** questions from section **B.**
- All answers should be written in the spaces provided on the question paper.

For Examiners Use Only

Section	Questions	Candidates score
A	1 - 14	
	15	
	16	
В	17	
	18	
	19	
	TOTAL SCORE	

This paper consists of 11 printed pages.

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

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SECTION A (40 MARKS)

Answer all the questions in this section.

1.	a) Explain the role of the following	
	(i) Computer programmer (i)	(4 mks)
		
	(ii) Software engineer	(1 mk)
\$ ⁵ CE		
2.	(i) What is electronic point of sale terminal?	(1 mk)
	(ii) Explain two advantages of using this system.	(2 mks)
	(iii) Give an application area of this system.	(1 mk)
3.	Explain the purposes of the following files.	
	a) Back up	(1 mk)
	b) Reference	(1 mk)
4.	a) Perfom the following binary arithmetic giving the answer in decimal notation.	(2 mks)
	11101.011 + 111.11	

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Computer Studies name 1



Answer question 16 which is compulsory and any other three questions from this section

a) Define the terms below.	
(i) Algorithm	(1 mk)
J ⁱ E ^V	
(ii) Pseudo es de	(1 mk)
- Control of the cont	
(iii) Flowchart	(1 mk)
,	
b) Draw a flowchart to compute the result of the following formula.	(5 mks)

$$\mathsf{K} = \frac{1}{(M+1)^2}$$

age ^v	
c) Write a program in high level language for a flowchart in b (above)	(5 mks)
c) Write a program in high level language for a flowchart in b (above)	
d) Explain the purpose of program compilation before testing.	(2 mks)
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17.	You ar	re provided w	ith the follo	owing entri	es in the sp	readsheet.		
^χ © ∲ _λ		A	В	C	D	E	F	G
17. of hore free			MONTHS					
	1	Items	Jan	Feb	Mar	April		
	2	Shoes	500	500	500	500		
	3	Pencils	400	300	600	700		
	4	Books	100	200	450	350		
	5	Ruler	900	760	350	102		
	6	Rubber	60	80	200	450		

a) State the cell data type represented by;

(i) Cell A4	(1 mk)
(ii) Cell C4	(1 mk)
(iii) Explain the difference between cell A4 and C4.	(1 mk)
b) Provide a formula for cell E5 that can be used to give 10% increase of cell E5.	

(ii) In the diagram above indicate the direction of data flow using arrows.

(2 mks)

Q