×.	agers.com
NAME:	INDEX NO:
SCHOOL:	CANDIDATE SIGN:
www.ft	DATE:
451/1	
COMPUTER STUDIES	
PAPER 1	
(Theory)	
JULY SUGUST-2014	

TIME: 2 1/2 HOURS

KISII SOUTH SUB DISTRICT JOINT EVALUATION TEST 2014

Kenya Certificate of Secondary Education (KCSE)

451/1 COMPUTER STUDIES PAPER 1 (Theory) JULY/ AUGUST-2014

TIME: 2 ¹/₂ HOURS

INSTRUCTIONS TO CANDIDATE:

- Write your **name**, **index number** and **school** in the spaces provided.
- This paper consist of **two** sections A and B.
- Answer **ALL** the questions in section **A**.
- Answer question **16** (compulsory) and any other **three** questions from section **B**.
- All answer MUST be written in the spaces provided in this question paper.

SECTION	QUESTION	ACTUAL SCORE
A	1 - 15	
В	16	
	17	
	18	
	19	
	20	
TOTAL SCORE		

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		er Paper				
		1 CHERON				
	1.	a Define a system anit.	(1 mk)			
		b) State two functions of the control unit.	(2 mks)			
	2.	a) Define a computer laboratories.	(1 mk)			
		b) State two functions of the ups.	(2 mks)			
	3.	Discuss the following types of computers.	(2 mks)			
for Note Fre	*CSE	i) Dedicate purpose computers				
	e [©]	ii) Embedded computers				
	4.	State two advantages of using biometric devices in voting.				
	5.	Discuss one are computers can be used in science and research. (2 mk				
	6.	State two types of database models. (2 mk				
	7.	State two types of database models.	(2 mks)			
		b) By use of examples, differentate between a function and a formula in sheets.	spread (2 mks)			
	8.	With the of a diagram, explain amplitute and periodic time.	(3 mks)			
	9.	a) Explain industrial espioriage.	(1 mk)			
		b) Describe data encryption.	(2 mks)			
	10.	What are data terminal equipment?	(1 mk)			
	11.	a) Explain open learning.	(1 mk)			
		b) Computers are used to enhance marketing in a variety of ways, one of E-business. Explain how computers are used in E-business.	f which is (2 mks)			
	12.	Discuss two computational errors giving example in each case.	(4 mks)			
	13.	Differentiate between warm and a virus.	(2 mks)			
	14.	Differentiate sequential file organization from indexed sequential file organization	zation. (2 mks)			
	15. With the aid of a diagram, differentiate between analog and digital data s					

SECTION B

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Answer question 16 and any other three questions in this section.

- State two types of selection controls used in high level programming language. 16. a) Visit (2 mks)
 - Give two characteristics of a good program. b) (2 mks)

Use the flow chart below to answer the questions that follow:



				trapers.com	
	i)	Write	a pseud	locode for the above flow chart. (6	i mks)
		ii)	Write	the expected output if $c = 2$, $x = 2$ and $y = 3$	
		iii)	Modi	fy the flow chart so that the program does not accept any neg	gative inputs. (3 mks)
	17.	a)	State be ins	and explain two disadvantages that will come about if a netw talled in your school.	work was to (4 mks)
e free	<i>6</i> .	265×	Discu	ss two disadvantages of wireless networks.	(4 mks)
	4CSE	c)	Write	the following abbreviations in full.	(4 mks)
	<u> </u>		i)	F.T.P	
MOT			ii)	H.T.T.P	
€ [⊂]		d)	With	the aid of a diagram, discuss Hybrid topology.	(3 mks)
		e)	Discu	ss one advantage of a client/ server network.	(2 mks)
	18.	a) when	Expla it has ju	in why a computer is able to display the correct time and da ast be switched on.	te (2 mks)
		b)	Discu	ss two types of special memories found I computer system.	(4 mks)
		c)	i)	Define a Bus with reference to a computer system.	(1 mk)
			ii)	List to examples of buses.	(2 mks)
		d)	Distin	guish between a power cable and interface cable.	(2 mks)
		e)	Diffe	rentiate between the different types of RAM.	(4 mks)
	19.	a)	i)	Define a system.	(1 mk)
			ii)	Explain system entropy.	(1 mk)
		b)	State syster	three circumstances that can lead to development of informants.	ntion (3 mks)
		c) Distinguish parallel implementation.		guish parallel changes over from straight change over as use mentation.	ed in system (2 mks)
		d)	Discu	ss two fact finding methods.	(4 mks)
		e)	Diffe	rentiate an open system from a closed system.	(2 mks)

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	f)	List two responsibilities of a system analyst.	(2 mks)
20.	a)	State two ways of representing a signed number.	(2 mks)
	b)	Write the following abbreviations in full.	(2 mks)
		i) ASCII	
	Ó	chi) EBCDIC	
	28° 1	Convert 110011.0110 to Decimal	
V.CSF	d)	Differentiate between absolute value and base value.	(2 mks)
\$ree	e)	Outline two reasons for using binary system in computers.	(2 mks)
FOTNOTE	f)	Perform $111011001000_2 - 11011011001_2$ using ones compliment con answer to Hexadecimal.	vert your (4 mks)