



FORM FOUR TRIAL 2, 2019

Kenya Certificate of Secondary Education

451/1 COMPUTER STUIES PAPER ONE

TIME: 2½HRS

INSTRUCTIONS TO CANDIDATES

- ✓ This paper consists of two section A and B
- ✓ Answer all questions in section A (40 marks)
- ✓ Answer question 16 (Compulsory) and any other THREE questions in section B.

FOR EXAMINERS USE ONLY

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



SECTION A (40 MARKS)

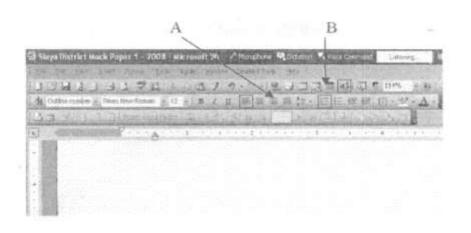
Answer ALL the questions in this section

1.	De	fine the following terms	(4mks)
	i)	Multiplexing	
	ii)	Baseband signal	
2.	Ex	plain the difference between digital signal and analog signal in data communic	ation
			(2mks)
	••••		
	••••		
3.	Lis	et down two types of computer viruses	(2mks)
4.	Be	low is a graphical representation of a section of a Microsoft words application	window.

DOWNLOAD MORE RESOURCES LIKE THIS ON **ECOLEBOOKS.COM**



Use it to answer the question that follow.



Gi	Give the uses of the icons labeled A and B (2m					
A						
В						
5.	Define the following terms as used in disk management					
	i) Partitioning	(2mks)				
	ii) Defragmentation	(2mks)				
6.	State three ways in which your school librarian can use a computer	(3mks)				
7.	i) Write the acronym UPS in full?	(1mk)				
	ii) Explain the uses of UPS?	(1mk)				
	a) Give two possible ways of fitting the document in one page	(2mks)				
DC	DWNLOAD MORE RESOURCES LIKE THIS ON ECOLEBOOKS.COM					



	b) The shopkeeper one day switched on the computer and experienced a	number of
	problems with windows operating system that he had installed. The problem	ns included
	failure to load the operating system during the booting. After several trials of sy	witching on
	the computer booting. It hand so often alongside abnormal restarting. Sta	te any two
	possible causes for the computer's behavior.	(2mks)
9.	Differentiate between real time processing and batch processing giving exam	ples where
	each could be used.	(4mks)
10	. In Kenya Tea Packers Company several people are employed as record clerks.,	typists and
	messenger. The company intends to introduce a computerized system	in all the
	departments. Suggest three reasons that would make workers unhappy with	th the new
	system.	(3mks)



11.	Giv	vo advantages of an electronic spreadsheet over traditional analysis ledger sheet			
			(2mks)		
12.	Ex	plain the following terms as used in information Technology with reference	e to software		
	pu	rchase:-			
	i)	User friendliness	(1mk)		
	ii)	Authenticity	(1mk)		
13.		nile purchasing computers for his school the principal Musambweni high sc			
	to	consult an expert. As a computer student advised him on four hard ware con			
			(2mks)		
	••••				
	••••				
	••••				
14.	Giv	ve the names of the following system flowchart symbols	(2mks)		
		g system of the same of the sa	(-)		
			7		
	A	B C D			
	Α.				
	R				



C		
D		
15. State	e any two features of a user friendly program	(2mks)
	FION B (60 MARKS)	
	wer question 16 and any other three questions from this section	(0.1.)
16. a) St	ate three qualities of a good psecudocode?	(3mks)
•••••		
h) i)	State the 3 translators used in programming	(3mks)
	sace the 5 translators used in programming	
ii) Li	st two examples of;	
i.	Third generation languages	(1mk)
ii.	Object oriented languages	(1mk)
c) Di	raw a flowchart that was used to come up with the following pseud code	(7mks)
Star	t en	
N=0		
X=0		
Whi	le n < 3	
Repo		
X = Y	(+ 1	



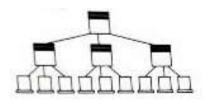
While x < 2

N = N + 1

End while

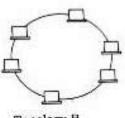
Stop

17. a) The diagram below shows four common network topologies A, B, C and D.



DOWNLC

Topology A



Topology B





i)	Name the network topologies A, B, C and D	(4mks)
	A	
	B	
	C	
	D	
ii)	Explain what happens if server X topology A fails	(1mk)
iii)	List two problems associated with network topology B	(2mks)
iv)	List two disadvantages associated with network topology D	(2mks)
h)	Differentiate between Internet and World Wide Web.	(2mks)

DOWNLOAD MORE RESOURCES LIKE THIS ON **ECOLEBOOKS.COM**



c) Convert the following binary number, 11001011.001 into decimal form.	(4mks)
18. a) Human activity systems are said to be soft systems. Give therereasons v	why they are said (3mks)
b) What are hard information systems	(2mks)
c) Discuss any five characteristics of a system	(10mks)



19.	a) One of the functions of an operating system is job scheduling. Explain what	is meant by
	job scheduling.	(2mks)
	b) List and explain three types of user interfaces.	(6mks)
	c) Describe the following categories of software	(4mks)
	i) Firmware	(TIIIIS)
	ii) Proprietary software	
	d) A new company ABC intends to go into business of desktop publishing.	Advice the
	company on three computer hardware specification features to consider as a	measure of
	enhancing performance.	(3mks)



20. a) Briefly explain the following terms as used in spreadsheet	(4mks)
i) Cell	
ii) Range	
iii) Value	ges and multiple copies (2mks) (2mks)
iv) Function	
b) List three paragraph formatting features of word processors	(3mks)
c) Explain the difference between the printing of multiple pages a	
d) Distinguish between a worksheet and a work book	(2mks)
e) The following is an excel worksheet showing the performance of	of students in Tana class.

A	В	С	D Cat	E Cat	F	G	Н
	Adam	Student name	1/50	2/50	Total / 40	Exam / 60	Total
1	4321	DollineMbesa	30	28	(a)	45	(b)
2	4333	SelinaMbugua	20	29		55	
3	4330	Winnie Wanjema	25	26		50	
4	4322	MagaretWambari	27	24		43	
5	4324	FaniNjuguna	28	24		42	





6	Maximum	(c)		
7	Minimum	(d)		
8	Average	(e)		
9				

Using the above worksheet write the following formula to calculate the values in cells l	abeled
•	ıks)

