KAPSABET HIGH SCHOOL



FORM FOUR PRE-MOCK 1 2021

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.

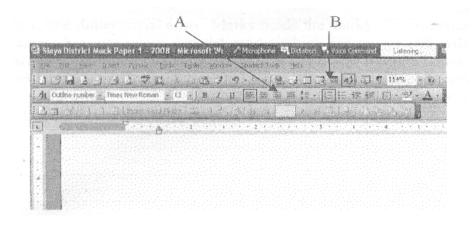
FOR EXAMINERS USE ONLY

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	
	11)	Daseband Signal	
2.	Exp	plain the difference between digital signal and analog signal in data commu	ınication
			(2mks)
3.	Lis	st down two types of computer viruses	(2mks)
4.	Bel	low is a graphical representation of a section of a Microsoft words applicat	ion window
		e it to answer the question that follow	



	ve the uses of the icons labeled A and B	(2mks)
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)

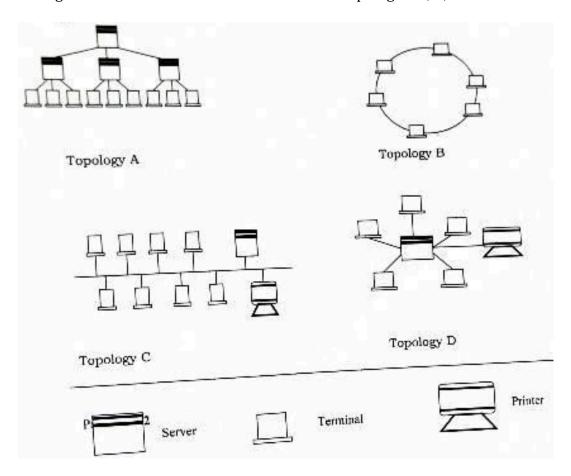
8.	a) Give two possible ways of fitting the document in one page	(2mks)		
	b) The shopkeeper one day switched on the computer and experienced a			
	problems with windows operating system that he had installed. The problems included			
	failure to load the operating system during the booting. After several trials of switching on			
	the computer booting. It hand so often alongside abnormal restarting. St	ate any two		
	possible causes for the computer's behavior.	(2mks)		
		• • • • • • • • • • • • • • • • • • • •		
9.	Differentiate between real time processing and batch processing giving exar	nples where		
	each could be used.	(4mks)		

• • •		
 10. In	Kenya Tea Packers Company several people are employed as record clerks.	, typists and
	nessenger. The company intends to introduce a computerized system	
	epartments. Suggest three reasons that would make workers unhappy w	
	ystem.	(3mks)
•••		
 11. Gi	ive two advantages of an electronic spreadsheet over traditional analysis ledge	
		(2mks)
12. Ex	xplain the following terms as used in information Technology with reference	to software
	urchase:-	
i)		(1mk)
ii)) Authenticity	(1mk)
13. W	Thile purchasing computers for his school the principal Musambweni high sch	nool decided
	consult an expert. As a computer student advised him on four hard ware cons	
		(2mks)
• •		

	nes of the following system	flowchart symbols	(2mks)
A	В	С	D
В			
	o features of a user friendly		(2mks)
SECTION B	(60 MARKS)		
Answer que	stion 16 and any other three	e questions from this sec	cion
16. a) State thre	e qualities of a good psecud	ocode?	(3mks)
	ne 3 translators used in prog		(3mks)

ii) Lis	st two examples of;	
i.	Third generation languages	(1mk)
	u	
ii.	Object oriented languages	(1mk)
c) Dra	aw a flowchart that was used to come up with the following pseud code	(7mks)
Start		
N=0		
X=0		
While	e n < 3	
Repe	at	
X = X	+1	
While	e x < 2	
N = N	I +1	
End v	while	
Stop		

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



i)	Name the network topologies A, B, C and D	(4mks)
	A	
	В	
	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)
b)	Differentiate between Internet and World Wide Web.	(2mks)
c) (Convert the following binary number, 11001011.001 into decimal form.	(4mks)

to be so	(3mks)
b) What are hard information systems	(2mks)
c) Discuss any five characteristics of a system	(10mks
a) One of the functions of an operating system is job sche	eduling. Explain what is meant

 b)	List and explain three types of user interfaces.	(6mks)
c) l	Describe the following categories of software Firmware	(4mks)
ii)	Proprietary software	
	A new company ABC intends to go into business of desktop publishing mpany on three computer hardware specification features to consider as a	
en]	hancing performance.	(3mks)

		············
20. a) I	Briefly explain the following terms as used in spreadsheet	(4mks)
i)	Cell	
ii)	Range	
iii)	Value	
iv)	Function	
h) List	three paragraph formatting features of word processors	(3mks)
U) LISC	three paragraph for matching leadures of word processors	(SIIIKS)
c) Expl	ain the difference between the printing of multiple pages and multiple	e copies (2mks)
d) Dist	inguish between a worksheet and a work book	(2mks)

e) The following is an excel worksheet showing the performance 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 labeled
(4mks)