# 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.

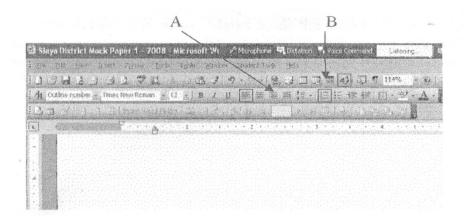
#### **FOR EXAMINERS USE ONLY**

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

## **SECTION A (40 MARKS)**

### Answer ALL the questions in this section

1.	Define the following terms	(4mks)
	i) Multiplexing	
	ii) Baseband signal	
2.	Explain the difference between digital signal and analog signal in data commun	 nication (2mks)
3.	List down two types of computer viruses	(2mks)
4.	Below is a graphical representation of a section of a Microsoft words applicatio Use it to answer the question that follow.	n window.



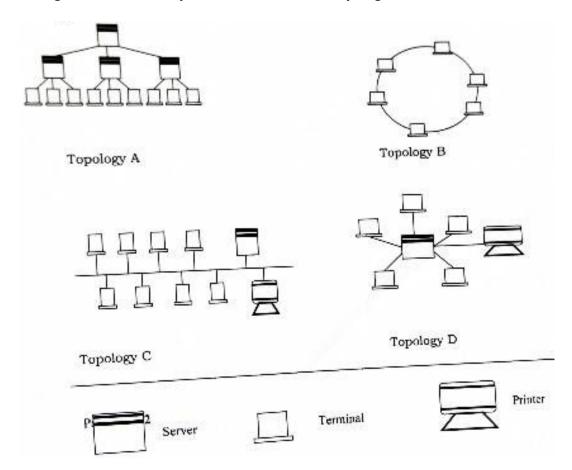
Giv	e th	e uses of the icons labeled A and B	(2mks)
Α.			
В.			
5.	De	fine the following terms as used in disk management	
	i)	Partitioning	(2mks)
	ii)	Defragmentation	(2mks)
6.	Sta	te three ways in which your school librarian can use a computer	(3mks)
7.	 i) V	Vrite the acronym UPS in full?	(1mk)
	ii) 	Explain the uses of UPS?	(1mk)
8.	 a) 	Give two possible ways of fitting the document in one page	(2mks)
	wit	The shopkeeper one day switched on the computer and experience the windows operating system that he had installed. The problems operating system during the booting. After several trials of swi	included failure to load
	bo	oting. It hand so often alongside abnormal restarting. State any tw	-
	<i>co</i> 1	nputer's behavior. (2mks)	

9.	Differentiate between real time processing and batch processing giving could be used.	examples where each (4mks)
10.	In Kenya Tea Packers Company several people are employed as reco messenger. The company intends to introduce a computerized system in Suggest three reasons that would make workers unhappy with the new s (3mks)	n all the departments.
11.	. Give two advantages of an electronic spreadsheet over traditional analys	sis ledaer sheet
		(2mks)
12.	2. Explain the following terms as used in information Technology with purchase:-	reference to software
	i) User friendliness	(1mk)
	ii) Authenticity	(1mk)
13.	3. While purchasing computers for his school the principal Musambweni h	high school decided to
	consult an expert. As a computer student advised him on four hard ware	considerations (2mks)

14.	Give the names of the following system flowchart symbols	(2mks)
	$A \qquad \qquad B \qquad \qquad C$	D
	A	
	В	
	C	
	D	
15	State any two features of a user friendly program	(2mks)
13.	State any two jeatures of a user friendly program	(2111KS)
	SECTION B (60 MARKS)	
	Answer question 16 and any other three questions from this section	
16.	a) State three qualities of a good psecudocode?	(3mks)
	b) i) State the 3 translators used in programming	(3mks)
	ii) List two examples of;	
		(1ml)
	i. Third generation languages	(1mk)

ii.	Object oriented languages	(1mk)
c) Dro	aw a flowchart that was used to come up with the following pseud code	(7mks)
Start		
N=0		
X=0		
While	e n < 3	
Reped	at	
X = X	+ 1	
While	e x < 2	
N = N	+1	
End w	phile	
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	
	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)
b) Differentiate between Internet and World Wide Web.	(2mks)
c) Convert the following binary number, 11001011.001 into decimal fo	orm. (4mks)
18. a) Human activity systems are said to be soft systems. Give thererobe so	easons why they are said to (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 scheduling. Exploscheduling.		ant by job ?mks)
b) List and explain three types of user interfaces.	(	6mks)
c) Describe the following categories of software i) Firmware	(	4mks)
ii) Proprietary software		
d) A new company ABC intends to go into business of desktop publish on three computer hardware specification features to consider as a	n measure of e	
performance. (.	3mks) 	

20. a)	Briefly explain the following terms as used in spreadsheet	(4mks)
i)	Cell	
ii)	Range	
iii)	Value	
iv)	Function	
b) List	three paragraph formatting features of word processors	(3mks)
c) Exp	lain the difference between the printing of multiple pages and mu	ltiple copies (2mks)
d) Dist	inguish between a worksheet and a work book	(2mks)
	following is an eyeal worksheet showing the performance of stude	onts in Tana class

e)	The following	is an exce	l worksheet :	showing th	ne performa	nce of students in	Tana class.
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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)				

Using the above worksheet write the following formula to calculate the values in cells labeled
(4mks)

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