Name	Index No/
School	Date
Candidate's Signature	

451/1

COMPUTER STUDIES

Paper 1

Time: 2 Hours

Kenya Certificate of Secondary Education (K.C.S.E)

INSTRUCTIONS TO CANDIDATES

- Write your **name**, **School** and **index number** in the spaces provided above.
- This paper consists of Two sections A & B
- Answer **ALL** the questions in Section **A**
- Question 16 is compulsory
- Answer any **THREE** questions in section **B**
- All answers to ALL questions must be written in the spaces provided in the question paper

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAXIMUM MARKS	CANDIDATES SCORE
A	1-15	40	
В	16	15	
	17	15	
	18	15	
	19	15	
	20	15	
TOTAL SC	ORE	100	

This paper consists of 12 printed pages.

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

SECTION A(40 MARKS)

Answers ALL the questions in this section in the spaces provided.

орста	ting system control	(2 marks)
a).	Define the term plotter	(2 marks)
b).	List two types of plotters	(1 mark)
	in the following terms as used in the word processing	(4 marks)
a).	indenting	
b).	Alignment	
c).	Foot note	
•••••		
d).	Endnote	
•••••		
•••••		

Differentiate between COM ports and LPT ports.	(2 marks)
List three factors to consider when deciding on the choice of an elec-	etronic data processing
method.	(3 marks)
Ventilation is an important practice in the computer lab because it en	
	nhances proper circulation
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Ventilation is an important practice in the computer lab because it er air. Outline three ways in which air is regulated in the computer roo	nhances proper circulation m. (3 marks) (4 Marks)
Ventilation is an important practice in the computer lab because it er air. Outline three ways in which air is regulated in the computer roo List four advantages of optical disks over floppy diskettes	nhances proper circulation m. (3 marks) (4 Marks)

b). Data encryption c). Log files d). Passwords 10. List four examples of flat panel displays (2 marks) 11. Define the term mail merging (2 marks) 12. Name two files that are created in mail merging process (2 marks) 13. While purchasing computers for his school the principal Musambweni high school decided to		a).	Audit traii	
c). Log files d). Passwords 10. List four examples of flat panel displays (2 marks) 11. Define the term mail merging (2 marks) 12. Name two files that are created in mail merging process (2 marks)				
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c). Log files d). Passwords 10. List four examples of flat panel displays (2 marks) 11. Define the term mail merging (2 marks) 12. Name two files that are created in mail merging process (2 marks)				
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10. List four examples of flat panel displays (2 marks) 11. Define the term mail merging (2 marks) 12. Name two files that are created in mail merging process (2 marks)				
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12. Name two files that are created in mail merging process (2 marks)				
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13. While purchasing computers for his school the principal Musambweni high school decided to		••••		• • • • • • • • • • • • • • • • • • • •
	13.	While	e purchasing computers for his school the principal Musambweni high sch	ool decided to

	consult an expert. As a computer student advise him on four hard ware con-	siderations (2 marks)
14.	Name four methods used in data management on a worksheet	(2 marks)
15.	List four formatting techniques used in excel.	(2 marks)

SECTION B. (60 MARKS)

Answer question 16 and Any other three questions

16.	a).	Study the pseudocode below and design a flowchart for the pseudocode. (8 marks)
		Set total to zero
		Set grade counter to one
		While grade counter is less or equal to ten
		Input the next grade
		Add the next grade into total
		Add one to the grade counter
		Set the class average to the total divided by ten
		Print the class average.

b). Describe **three** methods of testing the program for errors.

(3 marks)

c).	List down four selection controls used in writing a program	(2 marks)
•••••		
d.	Outline four benefits of modularization in programming	(2 marks)
d.		(2 marks)
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	Convert the following numbers of their decimal equivalent	
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	Convert the following numbers of their decimal equivalent a). 11.011 ₂	

	b).	Outline four ways in which data integrity may be maintained	(4 marks)
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	c).	Discuss four advantages of using questionnaires as a fact finding tool	(4 marks)
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	d).	What is the role of a recycle bin in Ms. Word?	(1mark)
	•••••		
	•••••		
10		T' . (1) 1	
18.	a).	List three advantages of fibre optic cables	(3 marks)
	•••••		
	•••••		
	•••••		
	•••••		
	h)	Differentiate between static PAM and dynamic PAM	
	b).	Differentiate between static RAM and dynamic RAM.	(4 marks)
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c).	Descr	ribe the following types of queries found in Ms. Access	(3 marks)
	i).	Update	
		-	
•••••	• • • • • • •		
•••••		Annand quary	
	ii).	Append query	
•••••	• • • • • • •		
•••••	• • • • • • •		
•••••	• • • • • • •		
	iii).	Make table query	
	• • • • • • • •		
	• • • • • • •		
d).	 Distir	nguish between source program and object code	
d).	Distir		
d).	Distir		
d).	Distir	nguish between source program and object code	(4 marks)
d).	Distir	nguish between source program and object code	(4 marks)
d)		nguish between source program and object code	(4 marks)
		nguish between source program and object code	(4 marks)
		nguish between source program and object code	(4 marks)
		nguish between source program and object code	(4 marks)
		nguish between source program and object code	(4 marks)
	Distir	nguish between source program and object code	(4 marks)
 e).	Distir	nguish between source program and object code	(4 marks)
 e).	Distir	nguish between source program and object code	(4 marks)
 e).	Distir	nguish between source program and object code	(4 marks)
 e).	Distir	nguish between source program and object code	(4 marks) (1 mark)

19.

Identify four major categories of data handling process which make up	a computer
	(2 marks)
	(=,
	•••••
	•••••
Outline four contents of user manual that would help the user to rum the	system with
minimal guidance	
Distinguish between dynamic and static systems	(2 marks)
List three programming languages that can be used by web developers	
	Distinguish between dynamic and static systems

••••			
a).	Masa	ii Teacher's college has decided to automate its library	for effective services to the
	Stude	ents. Identify four methods they are likely to use to gat	her information during system
	deve	lopment	(4 marks)
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••••	• • • • • • • • •		
b).	Defin	ne the following terms in relation to internet	(4 marks)
	i).	Downloading	
	ii).	Hyperlink	
••••	••••••		
••••			
	iii).	Web browsers	

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			•••••
	iv).	Internet service providers	
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			•••••
c).	Differentiate between sorting and filtering as used in electronic spreadsheet program		
			(2 marks)
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•••••	• • • • • • • • • • • • • • • • • • • •		
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d).	Defin	ne the following terms	(3 marks)
	i).	Spam mail	
	,	•	
			•••••
• • • • • •	• • • • • • • • •		•••••
	ii).	Disk	
•••••			• • • • • • • • • • • • • • • • • • • •
	iii).	On board modem	
• • • • • •	•••••		
e)	Defin	he the term WIMP as used in computing.	(2 marks)
C)	Dem		
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