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451/1			
COMPUTER TUDIES PAPER I			
(THEORY) JULY AUGUST 2011			
TIME 2 ½ HOURS.			
8			

KISUMU WEST DISTRICT JOINT EVALUATION TEST

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

Computer Studies Paper 1

INSTRUCTION TO CANDIDATES

- Write your name and index number in the spaces provided above
- This paper consists of <u>Two</u> sections A and B.
- Answer <u>ALL</u> questions in section A.
- .Answer question 16_and any other THREE questions from section B.
- All answers should be written in the spaces provided on the question paper.

FOR OFFICIAL USE ONLY

SECTION	QUESTIONS	QUESTION'S ACTUAL SCORE	CANDIDATES SCORE
A	1-14		
	15		
	16		
В	17		
	18		
	19		
	TOTAL SCORE		

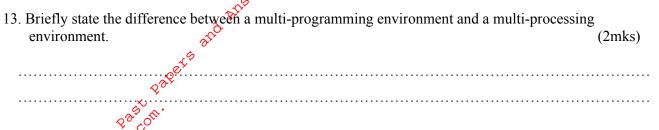
This paper consists of 8 printed pages. Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing © KSW–2011 Form Four 1 Computer Studies 451/1

SECTION A (40 MARKS) Answer all the questions in this section.

1. Name types of registe	ers and explain the purposes for each type of regis	ster. (5)
as	, &.	
	9	
12 ST IN		
& String.		
£ 5 3.30°		
2. State the factors you	will consider when selecting an input device.	(3:
¢.``		
2 Define the fellowing	**************************************	
3. Define the following (i) Assembler :-	terms	(4)
(ii) Compiler: -		
(iii) Interpreter:		
(iii) interpreter.		
(iv) Source program:		
(v) Ohioot magazan		
(v) Object program:		
(vi) Algorithm :-		
(vii) Flow chart:		
(viii) Pseudo code: -		
4. What merits does tim	ne sharing data processing method offer.	()
5. Commercially produc	ced packages have disadvantages as compared to	user made packages. State
disadvantages.		(
		•••••
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6. Write the following acrimonious in full as used in computer studies.(i) WYSWYG	(2mks
(ii) RMM with reference to memory –	
(iii) EBCDIC – Projection.	
(iv) OS - wish as the same of	
7. Explain the types of error that are likely to exist in a program?	(4mks)
e war	
·*	
8. A firm which wants to undertake programming of its tasks has approached as a software advice on what to look for in the high levet language to use. Outline the factors it sho choosing task.	
9. What advantages do bubble memories have for a user who opts for them?	(2mk
10. Name the volatile main memory in the computer and state its use.	(2mk
11. State advantages that an electronic spreadsheet has over traditional spreadsheets	(4mk
12. Differentiate between Value parameter and actual parameter	(3mks)

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SECTION B

Answer question 14 and <u>any</u> other three questions in this section

14. In any given triangle ABC, the tangent of an angle A given the three sides of the triangle as a, b and c can be obtained by the formula

Tan ½ A =
$$\sqrt{\frac{(s-a)(s-c)}{s(s-a)}}$$

Where $s = \frac{1}{2} (a+b+c)$.

With aid of program development tool write the code that will calculate $\tan \frac{1}{2} A$. (15 marks)

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(c) Computing technology has many application areas of our life. For each of the following the give examples of how the application of this technology has improved the work being done (i)Banking (ii) Communication (iii) Retail systems 6. Write brief notes on i) structured programming (iii) telecommuting (3mks)	cest contrate the	
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ii) telecommuting (3mks		
	tructured programming	(
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	talecommuting	(3mks)
ii) asynchronous mode of data transmission on a line (3mks))
ii) asynchronous mode of data transmission on a line (3mks)		
ii) asynchronous mode of data transmission on a line (3mks		
(Jilks	asynchronous mode of data transmission on a line	(3mks)
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(iv) computer crimes and abuse	(5mks)
A CONTRACTOR OF THE CONTRACTOR	
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17. (a). Define the following terms  (i) Database	(½mk)
(H) database management system	( ½ mk)
(iii) hierarchical database	(1 mk)
(iv) relational database	(1 mk)
(v) network database	(1 mk)
(b) List the advantages of using an electronic database system for storage of data over the file approach.	e (4mks)

(c) Study the spreadsheet below and answer the questions that follow

	Α	В	С	D
1		WESTERN COMPBOOK CENTRE SALES		
2	BOOK TITLE	PRICE PER BOOK	BOOKS SOLD	
3	DBASE IV	400.00	145	
4	LOTUS FOR DUMMIES	460.00	15	
5	OFFICE WORD IN 3 DAYS	300.00	65	
6	LEARN C++ IN 3 DAYS	700.00	100	
7	TEACH YOURSELF PASCAL	700.00	200	
8	COMPUTER STUDIES	500.00	300	
9	THE CLEVER FOOL: COMPUTER	300.00	10	
10				

(i) Write down the formula that can be used to find the price of the most costly book. (1mk)

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ii) Write down the formula that can be used to determine the total sales for the book titled COMPUTER STUDIES.	(1mk)
iii) Write down the formula that can be used to determine the average price of the books.	(1mk)
iv) Write down the formula in cell D6 that can be used to find the new price per book if they we by a percentage written in cell B 10 and the formula has to be entered only in cell D3 then be others.	copied to (1mk)
v) Write down the output in D7 if in B6 is 10%	(1mk)
d) State any four advantages of using an electronic spreadsheet as compared to a traditional	
worksheet	(2mks)
8. (a) Differentiate between a smart terminal and an intelligent terminal	(2mks)
b) List file organisation methods	(2mks)
c) Name and explain three level of programming languages.	(4mks)
d) What are the characteristics of a user-friendly program?	(3mks)
e) What is the work of a system analyst	(2½mks)
	• • • • • • • • • • • • • • • • • • • •

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200 E	
. (a) Explain what systems software is	
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Lawren .	
Explain the factors that make it necessary to have operating systems in the today	computers
Explain the factors that make it necessary to have operating systems in the today	computers
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Explain the factors that make it necessary to have operating systems in the today	computers
Explain the factors that make it necessary to have operating systems in the today	computers
	computers
Explain the factors that make it necessary to have operating systems in the today  Name and briefly explain user interfaces	computers
	computers
	computers
	computers
	computers

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