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WESTLANDS FORM 4 JOINT EXAMINATION Kenya Certificate of Secondary Education

COMPUTER STUDIES

Paper 2 July/August 2014 Time: 21/2 Hours

INSTRUCTIONS TO CANDIDATES

- Type your name, school and index number at the top right hand corner of each printout.
 - Write your name and index number on the CD / removable storage medium provided
- Write the name and version of the software used for each question attempted in the answer sheet provided
- Answer all questions
- All questions carry equal marks
- Passwords should not be used while saving on the CD / removable storage medium
- Make printout of the answers on answer sheets
- Hand in all the printouts and the CD / removable storage medium

1. The following data is an extract of data obtained from Chai company records. Study the data and answer the questions that follow.

Area	Producer Id	Name	Caelivered (kg)	Gross pay	Transport	Deduction	Not pay
101B	115	John Kamau e	4562				
70A	145	MathewB, .	1254		The second and present and a second and	The second secon	
794	012	Kanugawa Sypeyn	2.35			September 19 Septe	
79A	561	Jim Wangige	3054				
10113	016	Joseph Kaitano	9658	Anna (sept seator second second			
20Z	123 8	Namachanja Esther	7895				
207	458	Kerobo Betty	456				
1016	654	Flo Ngina	421			Allegary drawn and an experience of second	
e l	758	Mary Nguriareng'	7895	And the second s			

a) (i) Enter the data shown in the table above into a spreadsheet giving it an appropriate title which is centred and bolded across the worksheet.

(ii) Save the workbook as CHATOOL

(iii) Rename the worksheet as June records.

(10 marks)

b) Copy the data to a new worksheet and add the details of producer James Kirega of area 101 B, Id 452 with quantity of produce of 2, 700kg in an appropriate row. (1 mark)

c) Insert borders after every cell and every row.

(2 marks)

d) Use a function to calculate the gross pay for the producer with id number 115 given that the price per Kg of the produce is Sh.41 .00 (2 marks)

e) Use the formula for gross pay obtained for producer John Kamau to calculate the gross pay for all the farmers (2 marks)

 Use if function to calculate transport cost for all the producers given that transport is charged per Kg as follows.
 (5 marks)

	AREA	Price per kg
101B		5.00
20Z		3.50
79A	1	4.00

g) Insert the value 20% in cell E14. Using absolute cell referencing calculate:

Deductions given that the deduction is 20% of the cost.

(4 marks)

h) Using a function calculate the net pay given that Net pay is Gross pay-deductions and transport cost.

(4marks)

i) Format the columns containing currency values to currency with 2 decimal places and prefix Ksh. Rename the worksheet PRODUCE PAY and save it as CHAI 002 (3 marks)

j) Arrange the records in ascending order of the producer id.

(2 marks)

(3 marks)

iii) Save your work as sample 3

g) Print SAMPE-1, SAMPLE-2 AND SAMPLE-3

MISORI LIAISON OFFICES

Citadhe House Pagna Boad

SULTO ROSET SOFT TELL + 254 828 7923 893 F.O. BOX 82828-00100 Barabara Boad Nymeste Heere

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> MAKURU LABON OFFICES P.O. BOX 8909-00900 TELL + 254 898 00878 Nymerbe House Rasibu Epod

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CITY POSTAL CODE

HOHAM TECHBIT COMPUTER COLLEGE & CONSULTANCY SERVICE
P.O. BOX 802303

FOSTAL DEFORMATION

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Mission Statement

To provide quality training in ICT sidils to towards satisfaction of global ICT needs develop individuals and compountains

The Best College for You

Inspiration procedes perspiration

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Westlands - Form 4 | 2014

SECTION B: (60 Warks)

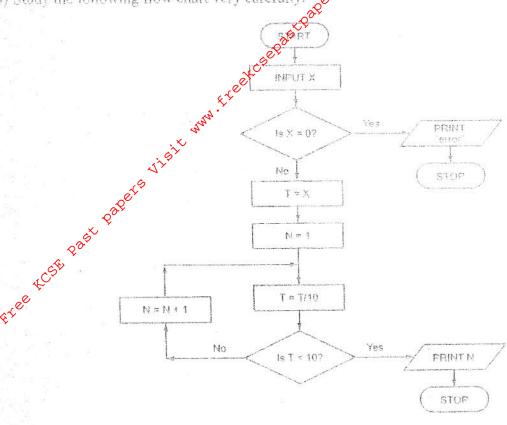
Answer questions 16 and anywher three questions from this section in the spaces provided.

thm, using pseudocode of a name that the spaces provided the spaces prov

- inputs 50 numbers - surpus hose many of the numbers were > 100	(3 marks)
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b) Study the following flow chart very carefully.



What output would you expect if the following data was input into the flowchart? (3 marks)

Х	Output
-150	
540	1
0	

c) A hospital has a local area network that links all the departments in the hospital. a) i) State what is meant by term local area network (LAN)	(2 marks)
ii) State three purposes the LAN might be used by a hospital doctor.	(3 marks)
b) The hospital is linked to other hospitals in the region by a wide area network. i) State what is meant by the term wide area network (WAN)	(2 marks)

	on
ii) State three purposes the WAN might be used by Phospit	al doctor. (3 marks)
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Ma. E.	
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er The hospital also uses arginiranet for some tasks.	
i) State what is meant by the term intranet	(2 marks)
and the second s	
Rati	
a Carr	
ii) State Three purposes a hospital might use the intranct	(3 marks)
not a	
a) Give two ways that computers can help teachers teach a	75 1.3
a) One two ways that computers can help teachers teach a	lesson. (2 marks)
TENNETH TO THE TENNETH THE TEN	
b) Give two ways that teachers could use a computer syste	ent to send work electronically to etiodent
who are absent from a lesson.	(2 marks)
	*
c) A supermarker makes use of barcodes on all its goods as	part of its automotic stock control material
Describe how the price is found for each item sold.	(4 marks)
MANAGERIA DENEGRASIA ANGENISA DA PARAGERIA	
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	a) The follow	ving are steps in i der.	the automatic sto	S control syst	tem. Number the	steps in the (4 marks)
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			ut for & manage		and the second second second second second second	
1 100		stock level redu	44			
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	v 1	1	ordered automati			
	o) Civo these	7				
	e) Give unee	the usinagemen	it tasks that are o	one by a comp	uter operating sy	stem. (3 marks)
	6	, Q	********************	······································	*****************	*****************************
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695	4CS			**********************		**)::*********************************
	~~e	*************		***************************************		*******************************
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10,	using broa	idband.	S to me meemer	are orar up and	oroadoand, Give	(2 marks)
	The state of					
		***************************************				21.11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1

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	b) Computer	s often use wirel	ess (WiFi) techn	ology to conne	ct to the Internet.	Give one advantage
	and one d	isadvantage of us	sing WiFi			(2 marks)
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	Ji Yasa					
			************************			***************************************
	c) Apart from	m computers, nar	me four devices	that uses WiFi	technology.	(4 marks)
					V	N 1 10000000100100

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		959 C 2	S2 5400kg 89 89 8	ar 19 520		1991 AV
	d) The pass	word is typed in t	twice. Why is thi	is done?		(1 mark)
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- 1	Describ	e two ways he	r computer	system is pr	otec e d against loss	or corruption of file	
i	compute	er system is co	onnected to	the Internet.	6.9.5		(2 marks)
				Co	Y		
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1) .	From a		ety aspect,	why does sh	e need to take a reg	ular break?	(1 mark)
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11)	Agenti	om switching	on her ma	cnine, now c	ould she ensure her	computer system w	
, 00 V	genilst t	rom switching aking her regu	Har break?			007	(1 mark)
CAIL							
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8)	DIACIA	O reasons wn	y video-coi	nerencing is	gaining in populari	ty.	(2 marks)
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	Ref No.	Name of City	County	Area	City population (m)	Urban population (m)	Capital
	1	Tokyo	Japan	Asia	33.2	34.1	Yes
		New York	IISA	America	170	94.0	100

Ref No.	Name of City	County	Area	City population (m)	Urban population (m)	Capital
1	Tokyo	Japan	Asia	33.2	34.1	Yes
2	New York	USA	America	17.8	21,9	- No
3	Sao Paulo	Brazil	America	17.7	20.2	No
4	Seoul	S. Korea	Asia	17.5	22.3	Yes
5	Mexico City	Mexico	America	17.4	22.7	Yes
6	Osaka	Japan	Asia	16.4	16.8	No
7	Manila	Phillippines	Asia	14.8	14.9	Yes
8	Mumbai	India	Asia	14.4	19.7	No
9	Jakarta	Indonesia	Asia	14.3	17.2	Yes
10	Calcutta	India	Asia	12.7	15.6	No

a) How may records are shown above?	(1 mark)

(2 marks) (2 marks) (3 marks) (4) Ware a search condition to find the cities in Asia with a city population greater than 17 million (2 marks) (3 marks) (4) One one advantage of using V or N rather than Yes or NO in the capital column. (1 marks) (5) Using twos compliments compare the following: (6) 17 marks) (7) 25 marks) (8) 18 marks)	(County = "India" or Area = "America") App (Capital = "No")	on was typea in (2 marks)
white a search condition to first the cities in Asia with a city population greater than 17 million. (2 marks) (3 marks) (4) Goz one advantage of using Y or N rather than Yes or NO in the capital column. (4) marks) (5) Using twos compliments compute the following: (6) 125 ₁₀ + 14 ₁₀ (7) marks) (8) marks)	ce ²	
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a) Gray one advantage of using Y or N rather than Yes or NO in the capital column. (1 marks) B. Using twos compliments compute the following: ii) 25 ₁₀ · 14 ₁₆ (3 marks) iii) 17 ₁₀ · 7 ₁₀ (3 marks)	(3) Write a search condition to first the cities in Asia with a city population greater the OR an orban population greater than 20 million.	
a) Gray one advantage of using Y or N rather than Yes or NO in the capital column. (1 marks) B. Using twos compliments compute the following: ii) 25 ₁₀ · 14 ₁₆ (3 marks) iii) 17 ₁₀ · 7 ₁₀ (3 marks)	ęage.	
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iii)Convert the hexadecimal number 2AFC17 ₁₆ to its octal equivalent. (3 marks)	15 F7 7-	(2 modes)
	11.). U. M. 10.	(3 marks)
	iii)Convert the hexadecimal number 2AFC17 ₁₆ to its octal equivalent.	(3 marks)
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