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Samoa Secondary Leaving Certificate COMPUTER STUDIES 2015 QUESTION and ANSWER BOOKLET

Time allowed: 3 Hours & 10 Minutes

INSTRUCTIONS:

- 1. You have 10 minutes to read **before** you start writing.
- 2. Write your **Student Education Number (SEN)** in the space provided on the top right hand corner of this page.
- Answer ALL QUESTIONS. Write your answers in the spaces provided in this booklet.
- 4. If you need more space for answers, ask the Supervisor for extra paper. Write your SEN on all extra sheets used and clearly number the questions. Attach the extra sheets at the appropriate places in this booklet.

STRANDS	Page number	Time (minutes)	Weighting
1. Computer Systems	2	45	25
Fundamentals of Computer Programming	7	27	15
3. Word Processing, Spreadsheets & Databases	11	108	60
TOTAL		180	100

Check that this booklet contains pages 2-26 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

Instruction: Write your answers in the spaces provided.

1. Use the picture of the computer component provided below to answer questions a) and b).



a)	Name the component:		

Skill I	_evel 1
1	
0	
NR	

Skill Level 3

0 NR

b)	Explain why the component is a necessary part of the computer system and
	what would happen if it fails to function.

				Skill L 1 0 NR
Explain how	sound cards con	ntribute to impr	ove PC capabilit	ies.
				1 0 NR
Cina receive	d on amail with th	h o filo otatam	ant via ottochod	to the mail N
	d an email with the sp			
				Skill L

5.	List the critical purposes that RAM serves in the processing of infocomputers.	rmation in
		Skill Level 2 2 1 0 NR
6.	A teacher often mentions GUI as the acronym for Graphical User II his presentation. List TWO ways in which GUI is used in computers today.	nterface in
		Skill Level 2 2 1 0 NR

7.	A researcher often advises his colleague to save their files and do le regularly. Explain the importance of such practice.	oack-ups
		Skill Level 3 3 2 1 0 NR
8.	Evaluate the need for computer systems to use appropriate anti-vir software as protection against viruses. Use specific examples.	us
		Skill Level 4 4 3 2 1 0 NR

9.	A computer technician working at the National Health –Hospital gadoctor's phone number to a patient without the doctor's consent. Identify a legal issue involved.	ave out a
		Skill Level 1 1 0 NR
10	Discuss the importance of programmers in the Information Commu Technology (ICT) field. Use specific examples.	nication
		Skill Level 4 4 3 2 1 0 NR

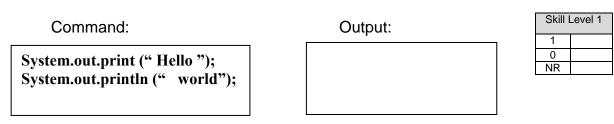
STRAND 2: Fundamentals of Computer Programming WEGHTING 15

١.	Define the following terms in relation to programming.	
	a) Problem analysis	
		Skill Level 1
		1 0 NR
	b) Decision making	
		Skill Level 1
		1 0 NR
	c) Flow chart	
		A. W.
		Skill Level 1 1 0

2. The given command will produce the given output

Command:	_	Output:
System.out.println ("Hello world");		Hello world

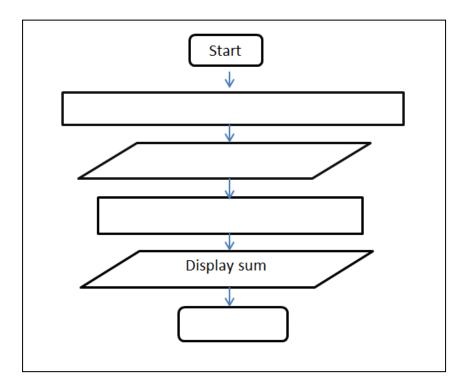
Write the output for the given command



3. A logic flowchart and algorithm will assist Enoka in writing a code to add two numbers. Some parts of the flowchart and steps of the algorithm has been done for you.

Finish the flowchart (a) and write a suitable algorithm (b) to add two numbers.

a) Flowchart to add two numbers.



Skill Level 3		
3		
2		
1		
0		
NR		

b)	Algorithm to add two numbers.	
Ste	ep 1 – Start	
Ste	ep 2 –	
Ste	ep 3 – Read values num1 and num2	Skill Level 3 3 2
Ste	ep 4 –	1 0 NR
Ste	ep 5 –	
Ste	ер 6 —	
4. N	lame a feature of a good computer program	
4. N	lame a feature of a good computer program	Skill Level 1
4. N	lame a feature of a good computer program	1 0
		1
	lame a feature of a good computer program Define data types	1 0
		1 0 NR
		1 0 NR Skill Level 1 1
		1 0 NR Skill Level 1

Skill Level 1

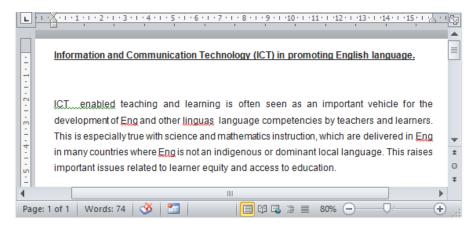
1 0 NR

7.	Write the syntax to declare a constant value for PI.	
	$\pi = 22/7;$	
		Skill Level2
		1 0
		NR

STRAND 3: Word Processing, Spreadsheets & Databases WEIGHTING 60

1.	De	fine the two terms.	
	a)	Text Processor	
			Skill Level 1
			1 0
			NR
	b)	Document processor	
			-
			Skill Level 1

2. The Word-processor was thought of as the most appropriate software to use for typing the article shown below. Use it to answer the questions that follow



Name and describe one principle of word-processor which contributed to writing the article.

a)	Name :	1	
- /		0	
		NR	

Skill Level 1

၁)	Explain the named principle mentioned in part (a)	
		_
		Skill Level 3
		3 2 1 0 NR
		-
		-
c)	The word such as 'Eng' has a wiggly red line. What does the wiggly red line indicate?	
		Skill Level 1 1 0 NR
۹/	Now a second that has been emplied to the title of the outiele	_
u)	Name an effect that has been applied to the title of the article	

e)	The acronym ICT has been changed to Information and Communica Technology. Name the command or activity applied to the text.	ation
		Skill Level 1 1 0 NR
f)	Write the word education using Upper case letters.	
		Skill Level 1 1 0 NR
g)	In the box, draw the shape of the button in the box that can bring the file down.	size of a
		Skill Level 1 1 0 NR

h)	During editing, the word teaching is replaced with another word from the saurus. Briefly explain how the use of the thesaurus is helpful for processing.	
		Skill Level 3 3 2 1 0 NR
i)	What command is used to add text on the top of every page? Explain the usefulness of the command in word processing.	
		Skill Level 3 3 2 1 0 NR

j)		nen previewing the whole document, it is noticed that some page ceeded the margins when printing on <u>portrait layout</u> .	9S
	Na	me another layout that can be chosen for printing.	Skill Level 1
	Ori	entation:	1 0 NR
3.	De	fine	
	a)	proportional spacing fonts	
			Skill Level 1 1 0 NR
	b)	fixed spacing fonts	
			Skill Level 1 1 0 NR
	c)	serif fonts	
			Skill Level 1 1 0 NR

4.	Discuss how people in workplaces are empowered by word proces Use specific examples.	sing skil	ls.
		Skill Lev	vel 4
		3 2	
		1 0	
		NR	

5. A worksheet had records of the population distribution in Upolu island and the status of the phone company coverage area. Use the data entered in the excel spreadsheet given below to answer the following questions.

	C3 ▼	f _x	=IF(B3>100	00," ",	")
4	Α	В	С	D	Е
1	TALANO	DA CAMPA	AIGN REPO	ORT	
	Site	Number of population	coverage?	target area?	
2					
3	Faleata	15609	GOOD	<u></u>	
4	Falealili	10936	GOOD		
5	Vaimauga	13035	GOOD		
6	Agoamaa	9020	BAD		
7	Aleipata	9820	BAD		
8	Safata	11236	GOOD		
9	Aaga	7692	BAD		
10	Siumu	5693	BAD		
11					
12	Count:				
13	Total:				

a) What type of data is entered in cell C3?

Skill Level 1	
1	
0	
NR	

b) Explain how an expression is used as the logical test in cell C3

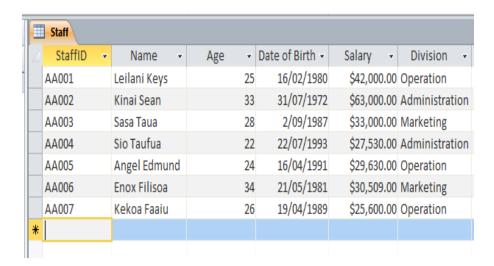
Skill I	Level 3
3	
 2	
1	
0	
 NR	

c)	Write a function to be used in cell B12 to count the occurrences of the number of sites already recorded.				
			Skill Leve 1 0 NR) 1	
d)	List the formatting that has been applied to cell B2				
		E	Skill Leve	:I2	
			1 0 NR		
e)	Create a function and a formula in cell B13 to add the total nu population included.	mber of	f the		
			Skill Leve	ર્ગ 2	
			NR		

areas. Write an IF Function to be used in cell D3 which will displ	ay "Yes" or
	Skill Level 3 3 2 1 0 NR
	-
on column D.	
Key:	Skill Level 1 1 0 NR
List TWO advantages of using a spreadsheet to create the Taland	oa Report
	Skill Level 2 2 1 0 NR
	You want to draw a pie graph to display the information on the site on column D. Write the keyboard key to press with the mouse in order to select t columns.

6.	Discuss the advantages of acquiring spreadsheet skills, using specexamples.	ific
		Skill Level 4
		4 3
		2
		0 NR
		I WIX

7. An Information Manager is working on transferring files to a database as shown on the table below. Use this information to answer the questions that follow.



a)	Name the da	ta type for Staff ID.
----	-------------	-----------------------

Skill Level 1				
1				
0				
NR				

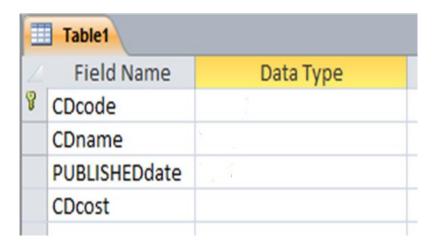
b) How many fields are there in the Staff Table?

Skill Level 1		
1		
0		
NR		

-	Pata was sorted in Descending order according to the Staff's age. No affire age in the staff's age. No affire age is a safe in the sorten age.	lame the
		Skill Level 1 1 0 NR
	Use the query to answer questions d and e. SELECT Name, Division FROM Staff	
d) Ho	where Salary > 30000; www many records will be displayed as a result of the above query?	
		Skill Level 1 1 0 NR
e) Wr	rite the output that will be displayed from the above query	
		Skill Level 2 2 1 0 NR

Wri	te a query to display details of staff working in the Operation [Division.
		_
		Skill Level 2 2 1 0 NR
		_
8.	Provide TWO advantages of choosing a database over a spr	eadsheet
		_
		Skill Level 2 1 0 NR
		_

9. Assign the data types for the given fields.



Skill Level 2					
2					
1					
0					
NR					

10.	Evaluate the importance of data integrity practices and examples.		
			Level 4
		3	
		2	
		0 NR	
			ı

Student Education Number									

COMPUTER STUDIES

2015

(For Markers only)

STRANDS	Weighting	Marker	Check Marker	Final Weighting
1. Computer Systems	25			
Fundamentals of Computer Programming	15			
3. Word Processing, Spreadsheets & Databases	60			
TOTAL	100			