

Samoa Secondary Leaving Certificate

COMPUTER STUDIES 2017

QUESTION and ANSWER BOOKLET

Time allowed: 3 Hours & 10 minutes

INSTRUCTIONS

- 1. You have 10 minutes to read **before** you start the exam.
- Write your Student Education Number (SEN) in the space provided on the top left hand corner of this page.
- 3. Answer ALL QUESTIONS. Write your answers in the spaces provided in this booklet.
- 4. If you need more space, 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.

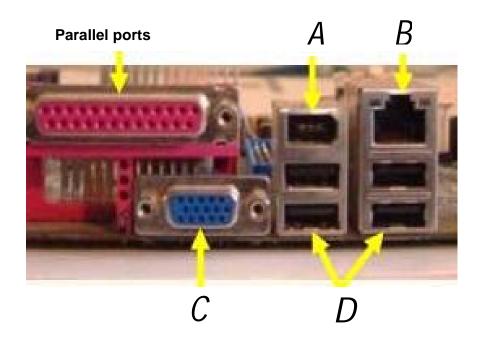
	CURRICULUM STRANDS	Page	Time (min)	Weighting
STRAND 1:	COMPUTER SYSTEMS	2	54	25
STRAND 2:	FUNDAMENTALS OF COMPUTER PROGRAMMING	6	45	15
STRAND 3:	WORD PROCESSING, SPREADSHEETS & DATABASES	9	81	60
	TOTAL		180	100

Check that this booklet contains pages 2-21 in the correct order and that none of these pages are blank.

HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION

Write your answers clearly in the spaces provided.

1. Use the diagram below to answer Number 1 (a - e).



/ \	D 11 (1	4 1 1 11 1 4	•	diagram above.
(a)	I locoribo tho	nort Inhollod /	N in tha	diagram above
וחו	DESCRIPE THE	DOLLADERED #	-1	UIAUI AIII AUUVE.

(b) Name the card to be used for the port labelled ${\bf B}.$

SL 1

(c)	Explain the functions of a PC gained when taking full advantage of the expansion slot for port labelled B on the diagram.	
		SL 3
(d)	Port labelled (C) is a Video Graphics Array (VGA) port which holds a 15-pin, D-sub miniature style and is usually located at the back or side of a laptop, computer or the back of a desktop system. Name any peripheral device your PC can use to connect through this VGA port.	
		SL 1
(e)	Name the ports labelled D .	
		SL 1
	·	
	received a picture of the beach she wanted to visit in Samoa. e the program with which the specified file can be opened.	
1		SL 1
		OL 1
,		
147	LA beach.docx	

2.

operating system.	21
	SL
Sketch an example of a Graphical User Interface icon and expla	ain
how its elements make program user friendly.	311 I
non no ciomo mano program decimentary.	
	SL
Evolain and provide an example of an anti-virus software	
Explain and provide an example of an anti-virus software.	
Explain and provide an example of an anti-virus software.	SL
Explain and provide an example of an anti-virus software.	SL
Explain and provide an example of an anti-virus software.	SL
Explain and provide an example of an anti-virus software.	SL
Explain and provide an example of an anti-virus software.	SL
Explain and provide an example of an anti-virus software.	SL
Explain and provide an example of an anti-virus software.	SL
Explain and provide an example of an anti-virus software.	SL
	SL
Evaluate the need for appropriate anti-virus software to protect	SL
Evaluate the need for appropriate anti-virus software to protect	
Evaluate the need for appropriate anti-virus software to protect	SL
Evaluate the need for appropriate anti-virus software to protect	
Evaluate the need for appropriate anti-virus software to protect	
Explain and provide an example of an anti-virus software. Evaluate the need for appropriate anti-virus software to protect computer systems against computer viruses.	

ield. Give examples.			SL

- 1. The algorithms for the activities (i) and (ii) have been provided for you. Insert the symbols/shapes of a flow chart to match the steps for each activity.
 - (i) Making tea
 - a. Start
 - b. Fill kettle
 - c. Heat water
 - d. Water boiled?
 - e. Make tea
 - f. Stop

a) Process

SL 1

b) Line connector

SL 1

c) Decision

SL 1

- (ii) Adding two numbers and show result
 - a. Start
 - b. Input x, Input y
 - c. Sum=x+y
 - d. Output Sum
 - e. End

d) Start/End

SL 1

e) Input/output

							SL '
)L
llea an avan	nple to define	the datatun	a Constant				
OSC all Chall	ipie to define	tile datatyp	e Constant.	•			
						:	SL '
List at least ⁻	TWO features	s of a good o	computer pr	ogram.			
List at least ⁻	TWO features	s of a good o	computer pr	ogram.			SL:
List at least ⁻	TWO features	s of a good o	computer pr	ogram.			SL 2
List at least ⁻	ΓWO features	s of a good o	computer pr	ogram.			SL 2
List at least ⁻	TWO features	s of a good o	computer pr	ogram.			SL 2
List at least ⁻	ΓWO features	s of a good o	computer pr	ogram.			SL 2
List at least ⁻	TWO features	s of a good o	computer pr	ogram.			SL 2
List at least ⁻	ΓWO features	s of a good o	computer pr	ogram.			SL 2
List at least ⁻	TWO features	s of a good o	computer pr	ogram.			SL 2
							SL 2
	TWO features				teeth.		SL 2
					teeth.		SL 2

6. With the assistance of the image 'Sprim'; draw a logic flow chart to show how to mix a sprim drink. Provide symbols and shapes to show each step and include a decision that has been made during the process.



STRAND 3: WORD PROCESSING, SPREADSHEET AND DATABASE Weighting 60

(a)	Document processor.	
		SL 1
		31 1
(b)	Fixed spacing fonts.	
		SL 1
		JL 1
(c)	Serif fonts.	
		SL 1
		32 1
Use	the picture to answer Questions (a) to (c).	
	Many can also run, jump, swim, and dive. Some, like penguins, have lost the	
	ability to fly but retained their wings. Birds are found worldwide and in all nabitats. The largest is the	
	smallest is the two-inch- long bee hummingbird.	
	3verything about the anatomy of a bird reflects wings, for example, are	
	shaped to create lift. The leading edge is thicker than the back edge, and they are covered in	
	eathers that narrow to a point. Airplane wings are	
	nodeled after bird wings. The bones and nuscles of the wing are also highly specialized. The main bone, the humerus,	
	which is similar to the upper arm of a mammal, is hollow instead of solid. It als connects to the bird's air sac system, which, in turn, connects to its lungs. The	
/-\		
(a)	State/Name the word-processing concept that was used to	
	construct the picture so that the text can move along and around the picture.	
	around the picture.	SL 1

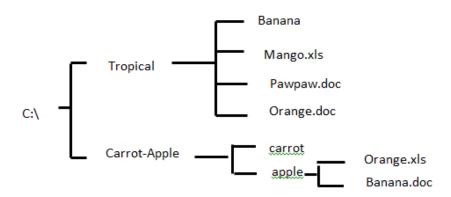
(b) San Serif was applied to the text font. Define the term San Serif.

SL 1

(c) List TWO types of documents you can create, edit, format and print using a word processing program.

SL 2

3. Re-draw the hierarchy below to include the changes (x) to (z).



- x Copy file Banana.doc in Banana folder
- y Move the word document file name Orange in the carrot folder
- z Rename Pawpaw.doc to Papaya.doc

MES T The letter C was typed at the point where the cursor was blinking. Write the full word if the overtype mode is active.	
	SL 1
×	
Name the command icon labelled 'A'.	
	SL 1
Use the empty Table 2 template to reformat the data found in Table 1 to match the editor's comments.	
Editor's comments	

- a.
- b.
- Apply center tab to the left column Apply decimal tab to the right column Apply 'All Case' to title (1st Row" of the table)

Table 1:

	Smoothies	
Apple juice	\$22.30	
Papaya	\$5.50	
Coconut shell	.20	

	Tabulation	SL 3
Table 2:		
	0 01	SL 1
	Case Change	
	Į.	i

by \	•						
							SL
-							
	e the spreads	heet below t	o answ	er Que	stions (a) to	o (j).	
Use	e the spreads	heet below t	o answ	er Que	stions (a) to) (j).	
Use	e the spreads	heet below t		er Que	stions (a) to) (j). E	
	А		(C	D		_
4	А	В	CK M	 C	D		
1	A	в KI-SHA(CK M	IEGA	SALE	E	
1 2	ITEMS	B KI-SHA(CK M DISCO	EGA DUNT	SALE	Sale NO	
1 2 3	A ITEMS	B KI-SHA(PRICE \$1,500.00	CK M DISCO	IEGA DUNT ICE 75.00	D SALE **SALE **1,425.00 \$2,375.00	Sale NO	

(a) Name the shaded cell.

SL 1

140.00

\$2,660.00

YES

7 dining table

10 DISCOUNT

8

9

\$2,800.00

\$

TOTAL MOST EXP

5% CHEAPEST

(b)	Write the formula that was used to calculate cell C3 if Discount Price = Price multiplied by 5% discount. (absolute reference was used and formula was copied to the rest of the Discount Price column.)	
		SL 2
(c)	Write the formula that was used for cell D3 when Discount Price was less from Price.	
	File was less from File.	01.4
		SL 1
	\$1,425.00 \$1,425.00 \$1,520.00 \$1,520.00 \$1,520.00 \$1,520.00 \$2,375.00	
(d)	Name the TWO column headings of the data extracted to form up the given chart.	
		SL 1

(e)	List the functions used to calculate cells D8, D9 and D10.	
		SL 2
(f)	Calculate answers for cells D8, D9 and D10 using the functions assigned in Question 8(e).	SL 3
		32.0
(g)	D8 can also be found by using formula: D3 + D4 + D5 + D6 + D7. Write another way of writing the formula to practice data integrity on the source used for calculation.	
		SL 1
(h)	Write the IF function argument or formular to calculate cell E3 if the discount price is more than \$100.00, then display the word "YES", But if discount price is less than \$100.00, then display the word "NO".	
		SL 3

(i)	If the spreadsheet was sorted in descending order of New Price , state the first value for the items column.	
		SL 2
j)	State any type of paper orientation you prefer the worksheet to show on a printed paper.	
		SL 1

9. Table 1 provides the Employees table and Table 2 shows properties applied to some of the Employee table's fields.

Use the information from the 2 tables below to answer Questions (a) to (g).

Table 1:



Table 2:

FIELD	FIELD PROPERTIES
EmployeeCode	Size – 30
DateOfBirth	Caption – Birthdate
Gender	Validation Rule – Female or Male Validation Text – Enter Male or Female

(a) Design the Employee's table by filling the Field Names and the Data Type.

SL 2

		The State of the S	No.
4_	Field Name	Data Type	les
-			
		<u> </u>	
			-

(b) Fill in the field names on a datasheet view. One field has been done for you.

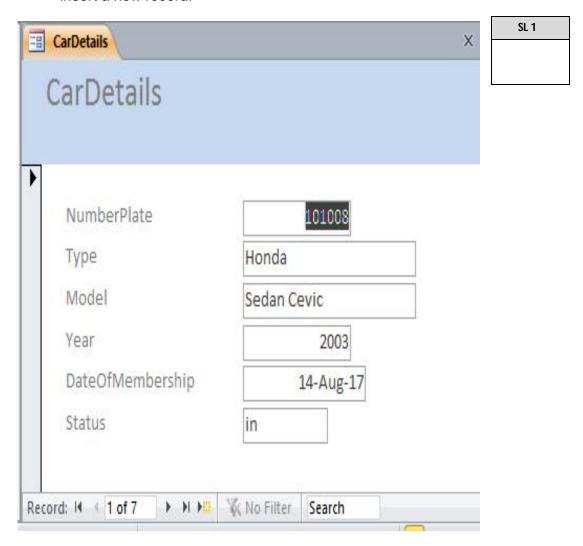
999	 Field Names			
XXX	 EmployeeCode			

(c) Use the properties assigned to the datasheet to make up and enter one line of records for the Employees table.							
	[Note: apply the properties to the fields].						
		[NOTE.	apply the prop		ausj.		
***************************************	Records						
	Employee(Code					

	(d)	practio	le an example focal way in which	one can ensu			SL 2
	(e)		e an SQL staten nale Employees		e first and last i	names of	SL 4

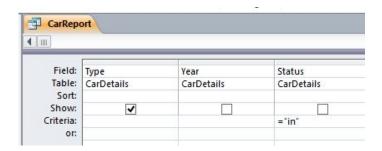
	ONLY. Also			ees code, with the employees la		
				nding order by en		SL 4
Field :]
Table:						
Sort :						
Show:						
riteria:						
Or						
CarDetails NumberP		Model -	Year +	DateOfMembership	o - Status	-
	101008 Honda	Sedan Cevic	2003		g-17 in	
	101011 Toyota	Hiace Van	2005		g-17 out	
	101013 Nissan	Sedan Sunny	2005		g-17 in	
	101015 Honda	Sedan Accord	2005	27-Au	g-17 in	
	101044 Nissan	Serena	2005	30-Ju	ıl-17 out	
	101058 Nissan	Sedan Bluebiro	2004	17-Au	g-17 out	
	101062 Mazda	Sedan Jax	2005	31-Au	g-17 in	Ī
		- 45 - 001	1 1	w, how many Nis		

(b) A form was used to add new records. Circle the button used to insert a new record.



(c) If the database was sorted by their **Models** in ascending order, what would be the <u>last entry</u> read in the **Number Plate** column.

(d) A report to show the query result has been generated. Write the output of this report based on the following criterias.





(e) Construct an SQL query to count the number of rows in the previous task.

SL	3	

11. Explain with an example the advantages of using a database.

STUDENT EDUCATION NUMBER									

COMPUTER STUDIES

2017

(For Scorers only)

CURRICULUM STRANDS	Weighting	Scores	Chief Scorer
STRAND 1: PRODUCTION	25		
STRAND 2: CONSUMPTION	15		
STRAND 3: MARKET	60		
TOTAL	100		