



## Samoa Secondary Leaving Certificate

# COMPUTER STUDIES

## 2020

## **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 right 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:	PERSONAL COMPUTERS SYSTEMS AND MANAGEMENT	2	54	30
STRAND 2:	FUNDAMENTALS OF COMPUTER PROGRAMMING	7	45	10
STRAND 3:	USING PERSONAL COMPUTER APPLICATION	9	81	60
	TOTAL		180	100

Check that this booklet contains pages 2-18 in the correct order and that none of these pages are blank.

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

STRAND 1:

# PERSONAL COMPUTER SYSTEMS AND MANAGEMENT

Weighting 30

Use Exhibit 1 to answer Numbers 1 – 4.



Exhibit 1

Name the expansion card that can enhance the internet connection of Exhibit 1.	
	SL 1
Explain with an example how the expansion card in Number 1 function.	
	SL 3

Name a peripheral device in Exhibit 1.	
	SL 1
List TWO roles for the device labeled X.	
	CI 2
	SL 2
Describe RAM.	
	SL 2
<del></del> -	
list TWO User Interface elements which are apprentiate with controlling the Inputs	
List TWO User Interface elements which are appropriate with controlling the Inputs.	
	SL 2

### Use Exhibit 2 to answer Numbers 7 and 8.

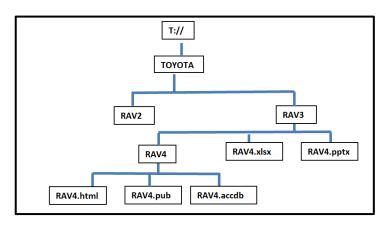


Exhibit 2

		SL 1
7.	Circle the spreadsheet file 'RAV4'.	
8.	Write the pathway for the web file.	
		SL 2
9.	Since the COVID 19 pandemic, the internet has been used to reach out to others for teaching, learning, communicating, working and so forth. With the intensified usage, the number of malware cyber-attacks has also increased.	
	(i) Evaluate with examples the needs for computer systems to be protected against computer viruses using appropriate anti-virus software.	
		SL 4
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	- <del></del>	

(ii)	With pandemics causing nationwide lockdowns, discuss the importance of programmers to the world of education.	
		SL 4
(iii)	Explain how pandemics have changed the nature of work and enterprises in terms of meetings and conferences. Provide an example of an application which people can use to hold their meetings and conferences online.	
		SL 3
(iv)	Discuss equity issues with the use of technology during lockdown for student learning in Samoa. Give examples and provide evidence to support.	
		SL 4

^	D				
U.	Describe softwa	are.			
-					
					SL 1
					1
					1

A bus is collecting passengers from Apia to Toomatagi. Since the State of Emergency (SOE), the number of passengers travelling by bus has been limited to 20 people only. Use this scenario to answer Numbers 11 to 15.

		SL
Draw the	symbol indicating the process of the bus pickin comatagi.	ng up passengers along the
		SL
	analysis plan to ensure that there are no more plore options for the driver to take if more than	
		SL

						SI
raw a simple f	low chart for	the algorithm N	lumber 14.			
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STR	AND 3:	USI	NG PERSONAL COMPUTER APPLICATION	ONS Weig	hting 60
16.			used in word processor where the cursor mo e <b>Enter</b> key on the keyboard.	oves from line to line	
					SL 1
7.	Name the f	feature o	or effects applied to the font text.		SL 1
		i	font → font		
		ii	font → FONT		SL 1
			l l		
8.	Name and	explain	ONE common command button on Exhibit 3	3.	
	REA		Microsoft Word —		
	Exhi		ferences Mailings Review View	- 1	
	Name:			_	SL 3
	Explain:				
	-				

	SL
·	
Discuss how word processing skills can improve a student who is typing his/her	
Discuss how word-processing skills can improve a student who is typing his/her research. Give examples to support.	
	SL 4
<del></del>	
Documents can be displayed or printed on a page orientation. Name ONE type of page orientation.	

22.	Name a text control option, applied to a cell during formatting.	
		SL 1
23.	Insert formula similar with the one provided: = SUM(B2:B4,B6)	
_0.	moert formala similar with the one provided 30M(B2:B4,B0)	SL 1
		31.1
24.	List TWO good features of using a Microsoft Excel spreadsheet.	
		SL 2
	<del></del>	
25.	When selecting the type of graph to be used in excel, we need to identify our data	
	from the table. List a sequence of steps to show how to select our data from cells B2 to B5 and cells D2 to D5 for the graph.	
		SL 2
20	List TMO to make at a sell referencies	
۷۵.	List TWO types of cell referencing.	
		SL 2

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Neti	10
Sam	25
Sala	40
Mary	10
Sio	15

Exhibit 5

			SL

### Refer to Exhibit 6 to answer Numbers 32 to 39.

	Working Condi	tion				
4	staff ID 🔻	Name -	Date of Birth 🔻	Age →	At Risk →	Gender
	BW27	Athena	18/3/1996	24		F
	BW29	Sasa	16/01/1981	39		M
	BW33	Neti	16/02/1992	28		F
	BW39	Enoka	26/11/1980	40		M
	BW45	Michael	16/12/1995	25		M
	BW92	Alesana	07/04/1986	34	$\checkmark$	M
	TW25	Samna	04/05/1985	35	$\checkmark$	M
	TW81	Leilani	06/01/1978	42		F
	TW97	Elijah	29/06/1994	25		M
*						

#### Exhibit 6

**32.** Design the data types for the fieldnames <u>Age</u>, <u>At risk</u> and <u>Gender</u>.

FieldName	Datatypes

SL 2	

**33.** Provide the most appropriate <u>field size</u> in the field properties for Age.

SI	<b>. 1</b>	

34.	Fill in the appropriate	Validation	Rule and	Validation	Text for	Gender.
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Gender		Text	
			Field F
General Lookup			
Field Size	255		
Format			
Input Mask			
Caption			
Default Value			
Validation Rule			
Validation Text			
Required	No		
Allow Zero Length	Yes		
Indexed	No		

SL 4	

	Validation Rule:	
	Validation Text:	
35.	Provide the output after running the query showing the <u>names</u> and <u>age</u> of <u>'at risk</u> <u>female staff'</u> only.	
		SL 2
36.	Describe with an example from the table a practical way in which one can ensure accuracy of data entry.	
		SL 2

	staff name?			d in ascending order	SL 1
You are		the <u>s<i>taff name</i>,</u> and statement of the abo	staff age for those vove query.	who are <u>at risk</u> only.	
					SL 4
(ii)	Design the qu	ery to find the same	e information.		SL 3
Field:					
Table: Sort:					

		9

STUDENT EDUCATION NUMBER									

## **COMPUTER STUDIES**

### 2020

## (For Scorers only)

	CURRICULUM STRANDS	Weighting	Scores	Chief Scorer	Double Entry (AED)
STRAND 1:	PERSONAL COMPUTERS SYSTEMS AND MANAGEMENT	30			
STRAND 2:	FUNDAMENTALS OF COMPUTER PROGRAMMING	10			
STRAND 3:	USING PERSONAL COMPUTER APPLICATION	60			
	TOTAL	100			