

MARKER CODE			

STUDENT EDUCATION NUMBER									



# Samoa Secondary Leaving Certificate COMPUTER STUDIES 2018

## 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 corner of this page.
3. 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		60	30
2. Fundamentals of Computer Programming		40	10
3. Word Processing, Spreadsheets & Databases		80	60
<b>TOTAL</b>		<b>180</b>	<b>100</b>

Check that this booklet contains pages 2-24 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.

**STRAND 1: Personal Computer Systems and Management**

**WEIGHTING 30**

1. Use the image below to answer the following questions 1a and 1b

Figure 1



- 1a. Name a peripheral device in Figure 1

\_\_\_\_\_

Skill Level 1

- 1b. Describe the function of the peripheral device in 1a. above

\_\_\_\_\_

Skill Level 2

2. List a peripheral device that can be connected to the following ports to enhance the personal computer's (PC) capability.

PORT	DEVICE
PS/2 Port	
Parallel Port	
USB Port	

Skill Level 2

3. Explain the basic function of a Central Processing Unit (CPU)

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\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Skill Level 3

4. Name the expansion card that enables the computer to connect to a network

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Skill Level 1

5. A network printer allows many users to print from this one device. Describe the role of a printer in a computer system.

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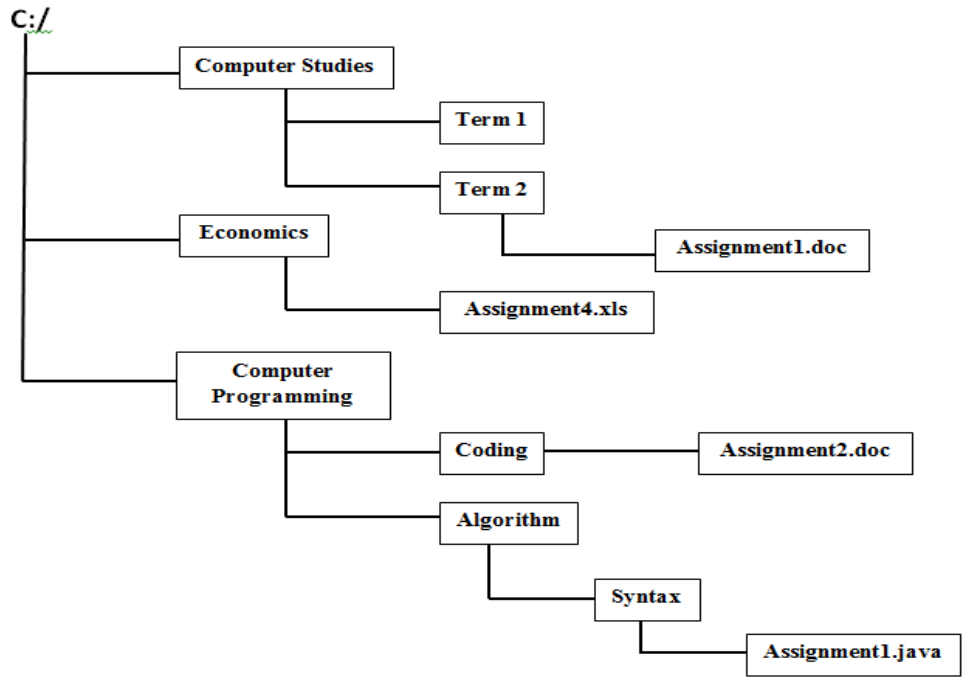
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Skill Level 2

6. Use the file hierarchy diagram to answer questions 6a – 6c.



6a. According to the file hierarchy in 6. above, name the program that can be used to open the file Assignment2.doc

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Skill Level 1

6b. Identify the file pathway to the file Assignment1.java

\_\_\_\_\_

Skill Level 1

6c.. Tai was conducting a search on the hierarchy in 6. using the search characters of *A\*I.\** List the results of this search

\_\_\_\_\_  
\_\_\_\_\_

Skill Level 1

7. Explain the concept of saving a file by using the '*SAVE AS*' option

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Skill Level 2

8. Why is it important to regularly save and update files on the computer?

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Skill Level 3

9. Circle a legal issue from the list:

Copyright

Climate Change

School Violence

Daylight Saving

Skill Level 1

10. Nowadays there are no more long queues inside the Banks because people

can just withdraw money from the Automatic Teller Machines (ATM).  
Explain the changing nature of work and businesses due to the availability  
of ATMs to the public.

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Skill Level 3

11. Explain the difference between *Hardware* and *Software*

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Skill Level 3

12. Explain why an antivirus program is very much necessary to be installed

on any computer system

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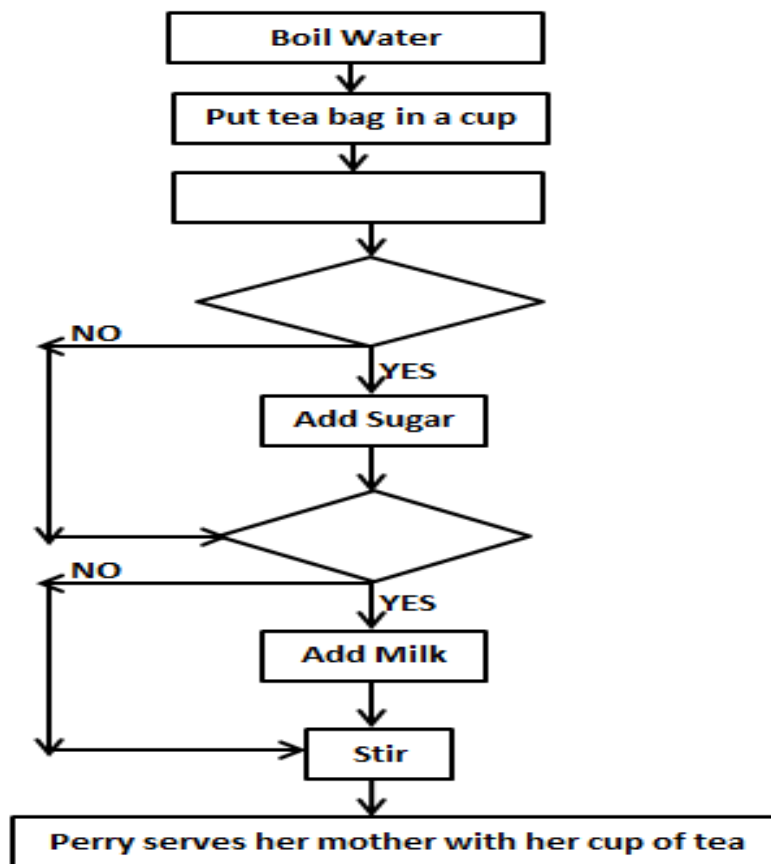
Skill Level 4

13. Circle the symbol below which is used to indicate a program condition to be tested whereby one branch lists the tasks if the condition is true and the other one lists the tasks if the condition is false.



Skill Level 1

14. A logical flowchart uses symbols to present the logical steps in solving a problem. Perry was asked by her mother to make her a cup of tea with sugar and milk. Fill in the empty shapes with the correct *task* and correct *condition* to show the sequence of logical steps that Perry should take in order to achieve her task of making the cup of tea for her mother.



Skill Level 3

15. A programming algorithm is a set of *logical* instructions representing a computer program structure and sequence. Fill in the blank spaces in the algorithm provided to calculate a solution to the following problem.



At Apollo Cinemas, the charges to see the movies are:

1. Children 13 years and below pay \$8.00
2. Adults above 13 pay \$15.

Maddy is 17 years old and wanted to see Mama Coco. How much will Maddy have to pay for his ticket?

Step 1 – Declare variable to store Age

Step 2 – \_\_\_\_\_

Step 3 – Read Age

Step 4 – IF \_\_\_\_\_

ELSE \_\_\_\_\_

Step 5 – Display “Maddy should pay \_\_\_\_\_ . Enjoy the Movies”

Skill Level 4

16. Name 2 features of a good computer program

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Skill Level 2

**STRAND 3: Using Personal Computer Applications**

**WEIGHTING 60**

17. June wanted to create her application letter using computer. What would be the most appropriate software that June can use?

Skill Level 1

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18. Define the program in 17. Above

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Skill Level 1

19. Define text processor

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Skill Level 1

20. Explain the difference between word processor and text processor

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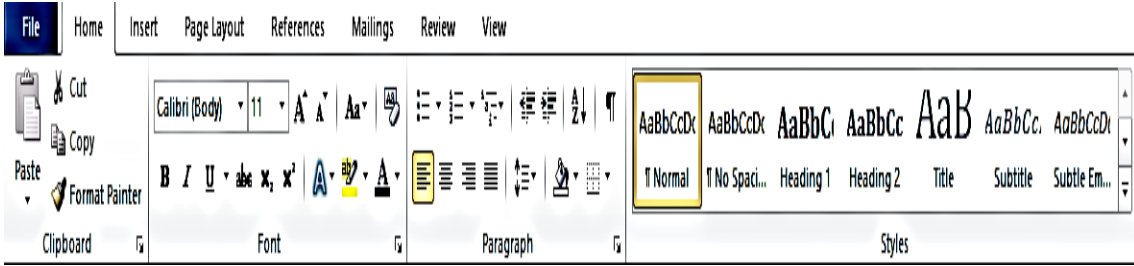
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Skill Level 3

21. Refer to the picture provided to answer questions 21a and 21b



21a. List 2 or more **OPTIONS** of the **HOME** command button as shown 21. above

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Skill Level 2

21b. Describe any 2 of the options of the HOME command button.

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Skill Level 2

22. Name the alignment and indenting options as numbered in the picture when applying formats to paragraphs in an MS Word document



1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Skill Level 3

23. Marshall was working on his assignment in MS Word then he wanted to make a copy of his file. The 2 options available for Marshall were:

1. SAVE AS and 2. SAVE

23a. Which option should Marshall take if the file was saved for the FIRST time?

\_\_\_\_\_

Skill Level 1

23b. Which option to take if Marshall was saving changes to his file?

\_\_\_\_\_

Skill Level 1

24. Define the concept of WYSIWYG in terms of the operations of a Word Processor

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Skill Level 1

25. Which paragraph format was applied to the following list?

- Gloria
- New Caledonia
- Eoin
- April
- Martasha

Skill Level 1

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26. Define fixed spacing fonts

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Skill Level 1

27. Discuss how people in the workplace are empowered by acquiring word processing skills

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Skill Level 4

28. Refer to the spreadsheet provided to answer Questions 28a to 28g

	A	B	C	D	E	F	G	H	I	J
1	Year 13 Marvelous Christmas Canteen Sales Report 2018								Discount	5%
2	Item	Quantity	Unit Price	Discount Item	Discount Amount	Sale Price	Number of Items Sold	TOTAL Earning		
3	Pancakes	50	\$ 0.10	NO	\$ -	\$ 0.10	40	\$ 4.00		
4	Roti	100	\$ 2.00	NO	\$ -	\$ 2.00	100	\$ 200.00		
5	Keke Puaa	500	\$ 1.00	YES	\$ 0.05	\$ 0.95	450	\$ 427.50		
6	Tuna Sandwich	200	\$ 1.50	YES	\$ 0.08	\$ 1.43	150	\$ 213.75		
7	Ham & Cheese Sandwich	100	\$ 4.00	NO	\$ -	\$ 4.00	82	\$ 328.00		
8	Cinnamon Rolls	50	\$ 0.50	NO	\$ -	\$ 0.50	50	\$ 25.00		
9	Hot Dogs	50	\$ 5.00	NO	\$ -	\$ 5.00	50	\$ 250.00		

28a. There are 3 types of data which can be entered in an Excel cell: Texts, Numbers and Formulae. From the spreadsheet in 28 name the type of cell and the corresponding cell address of that cell type.

Cell Type	Cell Address

Skill Level 1

28b. Jeremy wanted to know how many items that were actually sold. Write the *formula* using the correct *function* to calculate the TOTAL number of items sold.

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Skill Level 1

Skill Level 1
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28c. **Total Earning for** an item is calculated by multiplying the **Number of Items Sold** and its **Sale Price**. Write a formula to calculate Total Earning from selling **Rotis**.

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28d. List **ONLY** the spreadsheet function to enter in a formula that will do the following calculations:

1. To find out the **TOTAL** earnings of this class from their canteen

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2. To find out how many pancakes that were **NOT** sold

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3. To count how many different items sold in the canteen

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Skill Level 2

28e. If the spreadsheet is sorted by **DESCENDING** order of Quantity, what will be the **5<sup>th</sup>** item in the list?

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Skill Level 3

28f. The class agreed to sell the items at a discount price **IF** the quantity is more than or equal to 200 and then display a **YES** or **NO** in the Discount Item column. Write a formula applying a spreadsheet function to show if Hot Dogs can be sold at a discount price and display a yes or no for this item

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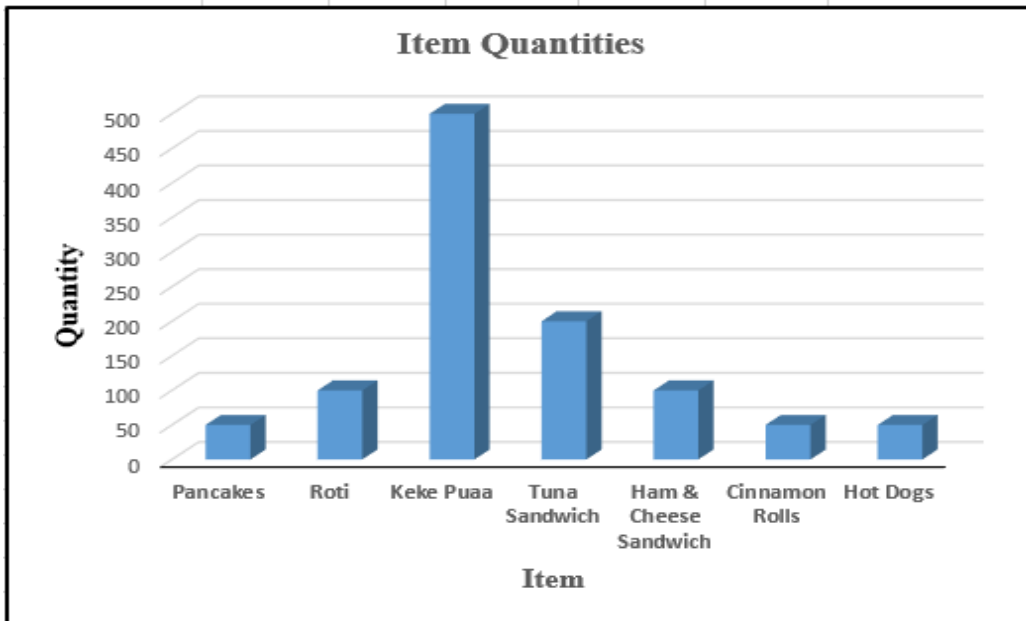
Skill Level 3

28g. Name the format style applied to the title or heading of the spreadsheet in 28.

\_\_\_\_\_

Skill Level 1

29. Use the graph provided to answer Questions 29a and 29b



29a. Which data items were selected to build the graph in 29.?

\_\_\_\_\_  
\_\_\_\_\_

Skill Level 1

29b. Name the type of graph shown in 29.

\_\_\_\_\_

Skill Level 1

30. Leafu wanted to print her spreadsheet but first she wanted to check if the contents of the spreadsheet are correct **BEFORE** it is printed. Which printing option will Leafu choose to check her spreadsheet before it gets printed?

Skill Level 1

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31. Discuss why it is necessary to have some skills and knowledge of developing spreadsheets.

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Skill Level 4

32. Circle the database file in the following list

Results.dbms          Assignment.doc  
 BBQ.mdb                FishnChips.xls

Skill Level 1

33. Use the database table provided to answer Questions 33a to 33f

SSLC 2018						
SEN Number	FirstName	LastName	School	Gender	Age	
APS2002	April	Maunaloa	Apia Primary School	F	10	
SJC2018	Jibo	Faipz	St Therese College	M	18	
SMC2014	Martasha	Marsh	St Mary's College	F	16	
VC2017	Filomena	Martin	Vaimauga College	F	15	
VPC2018	Cinta	Bubz	Vaipouli College	F	19	
VPS2000	Hessed	Paida	Vaivase Primary School	M	13	
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33a. Fill in the SQL Query to display **Male** students from **Vaivase Primary School** and **sorted** by **Ascending** order of **Firstname**

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Skill Level 4

33b. Write the result of the query above using the template below

SEN Number	FirstName	School	Gender	Age
*				

Skill Level 2

33c. Using the data from table in 33. assign appropriate datatypes for the fields listed below:

Field	Datatype
SEN Number	
Gender	
Age	

Skill Level 2

33d. Fill in the table below by writing the fifth (5<sup>th</sup>) record if the data in 33. is sorted by Descending order of Age

SEN Number	FirstName	School	Gender	Age
*				

Skill Level 1

33e. Name the table that displays the *results* of a Query

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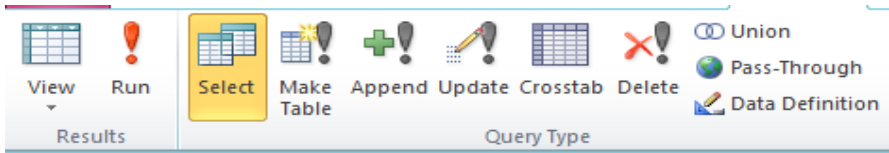
Skill Level 1

33f. What would be an appropriate fieldsize for the field 'School'

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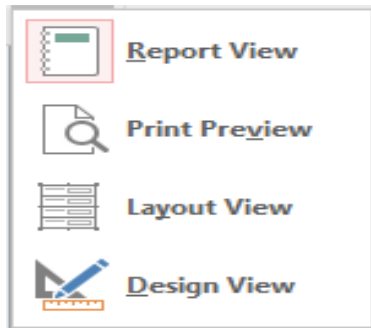
Skill Level 1

34. Circle the toolbar option to display the results of a query



Skill Level 1

35. Circle the option to take if a user wants to print a report in database



Skill Level 1

36. Fill in the blanks in the following statements:

1. In a database, a \_\_\_\_\_ is used to enter the data  
and a \_\_\_\_\_ is used to question the data.

Skill Level 1

2. In a database table, a row is known as the \_\_\_\_\_  
and a column is known as the \_\_\_\_\_ .

Skill Level 1

37. Explain the advantages of using a database.

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Skill Level  
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