



GOVERNMENT OF SAMOA

STUDENT EDUCATION NUMBER									

# Samoa Secondary Leaving Certificate

# COMPUTER STUDIES

# 2024

## QUESTION and ANSWER BOOKLET

Time allowed: 3 Hours & 10 minutes

### INSTRUCTIONS

1. You have 10 minutes to read **before** you start the exam.
2. 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 to the appropriate places in this booklet.

STRANDS		Pages	Time (min)	Weighting
STRAND 1	PERSONAL COMPUTER SYSTEMS AND MANAGEMENT	2-8	60	40
STRAND 2	USING PERSONAL COMPUTER APPLICATION	9-16	40	40
STRAND 3	FUNDAMENTALS OF COMPUTER PROGRAMMING	17-21	80	20
TOTAL			180	100

Check that this booklet contains pages 2-22 in the correct order and none of these pages are blank.

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

For Questions 1 to 4, choose and write the LETTER of the correct answer in the box provided.

1. The computer component in Figure 1 is a:

- A. Power Supply.
- B. Keyboard.
- C. Hard Disk Drive.
- D. Video Card.



**Figure 1**

SL 1

2. Iris received an email with a file attachment named Nani.pptx. Which program was used to create this file?

- A. MS Word
- B. MS Excel
- C. MS PowerPoint
- D. MS Window

SL 1

3. Choose a basic element of GUI from the following:

- A. Times New Roman
- B. Mouse click
- C. Font size
- D. Formula

SL 1

4. Identify an application software from the following.

- A. Folder
- B. File
- C. Copy – Paste
- D. Microsoft Excel

SL 1



7. Describe the purpose of RAM in the storage of information in the computer.

---

---

---

---

---

---

SL 2

8. Describe some examples of files that can be compressed using lossy technique.

---

---

---

---

---

---

---

SL 2

9. Describe the main function of the desktop computer's Operating System.

---

---

---

---

---

---

SL 2

10. Miss Precious always advises her students to save their work regularly while they are creating their documents on the computer. Explain the importance of this process.

---

---

---

---

---

---

---

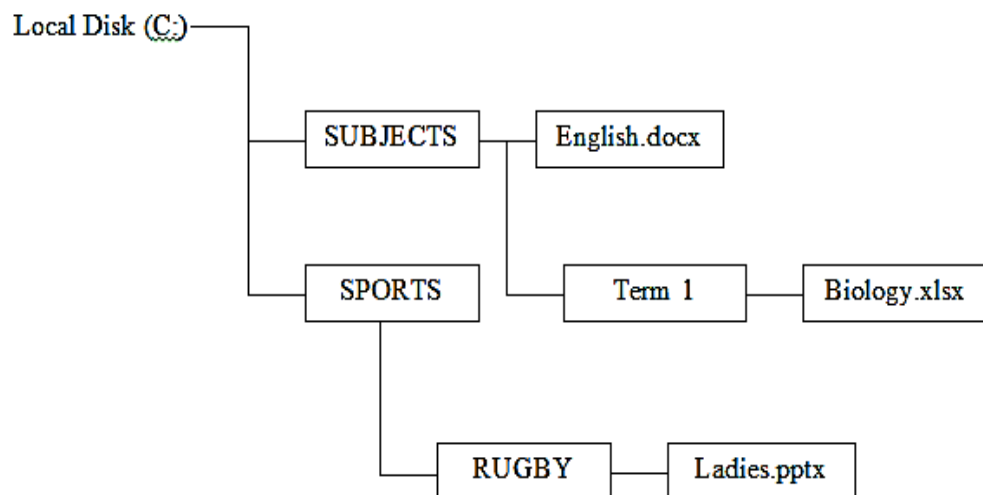
---

---

---

---

SL 3



**Figure 3**

11. Write the pathway to the file Biology.xlsx from Figure 3.

---

SL 2

12. Gabby wanted to save her file using the SAVE option. Explain the concept of saving Gabby's file.

---

---

---

---

---

---

---

SL 2

13. Explain the relation between ASCII codes and binary values.

---

---

---

---

---

---

---

---

---

---

---

---

SL 3

14. Explain an anti-virus program.

---

---

---

---

---

---

---

---

---

---

---

---

SL 3



17. Explain the difference between hardware and software using examples.

[illegible]

<b>SL 3</b>

18. List TWO examples of application softwares.

---

---

---

---

---

---

SL 2



For Questions 19 to 22, choose and write the LETTER of the correct answer in the box provided.

19. WYSIWYG is an acronym in computers which stands for:

- A. What You Say Is What You Give.
- B. What You See Is Where You Go.
- C. Where You Stay Is What You Grow.
- D. What You See Is What You Get.

SL 1

20. A type of data in an Excel spreadsheet can be:

- A. Formula.
- B. Absolute Value.
- C. Row.
- D. Column.

SL 1

	A	B	C	D	E
1		Sales in Each Quarter			
2	Product Name	Jan'2018	April'2018	July'2018	October'2018
3	ABC Mutton	\$ 2,667.60	\$ 4,013.10	\$ 4,836.00	\$ 6,087.90
4	Crab Meat	\$ 1,768.41	\$ 1,978.00	\$ 4,412.32	\$ 1,656.00

**Figure 4**

21. Which format is applied to the heading **Sales in Each Quarter** in Figure 4.

- A. Centre
- B. Justify
- C. Bullet
- D. Merge and Center

SL 1

22. Choose a valid data type in a database from the following.

- A. Short Text
- B. Formula
- C. Label
- D. Field size

☐

SL 1

23. Explain the difference between a text processor and a document processor.

---

---

---

---

---

---

---

---

---

---

---

---

SL 3

24. Differentiate between Serif and San Serif fonts.

---

---

---

---

---

---

---

---

---

---

---

---

SL 3

Use Figure 5 to answer Questions 25 to 27.

	A	B
1	Students	Marks /100
2	June	68
3	Sam	75
4	Foaina	94
5	Highest Mark	
6	Lowest Mark	

**Figure 5**

25. Write the correct **formula** to calculate the Lowest Mark in cell B6 in Figure 5.

---



---



---



---



---

SL 2

26. Write the correct **function** to perform the calculation to find the Highest Mark in Figure 5.

---

SL 2

27. Fill in the following table if the student marks in Figure 5 were sorted in **Descending Order** of the column **Students**.

Students	Mark/100

SL 3

	A	B	C
1	Students	Marks /100	Pass/Fail
2	June	68	
3	Sam	75	
4	Foaina	94	

**Figure 6**

28. Write the correct formula if the function **IF – ELSE** was applied to find out if Foaina in Figure 6 has passed, then display 'PASS' otherwise display 'FAIL'. The pass mark is 50.

---

---

---

---

---

---

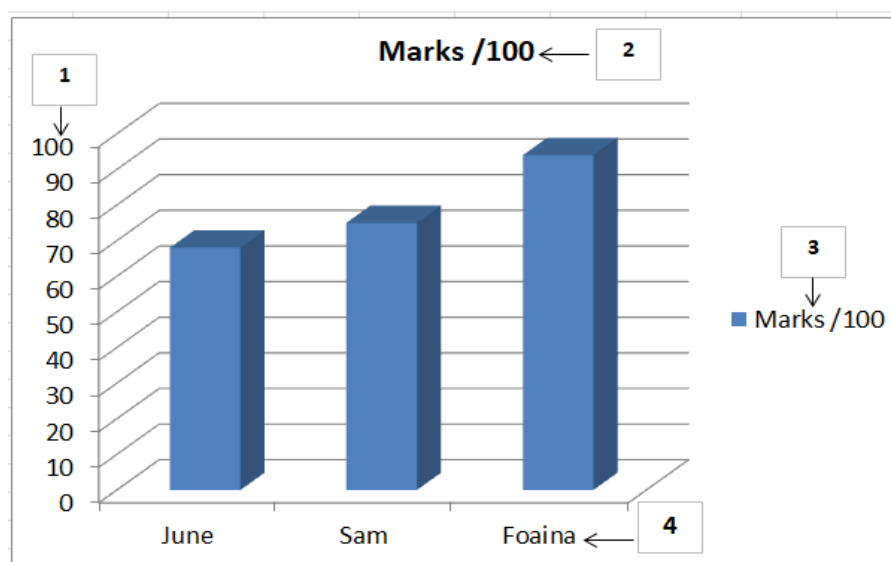
---

---

---

---

SL 3



**Figure 7**

29. Use appropriate labels to identify the sections numbered 1 to 4 in the graph in Figure 7.

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

SL 4

30. Describe a database table.

---

---

---

---

---

---

SL 2

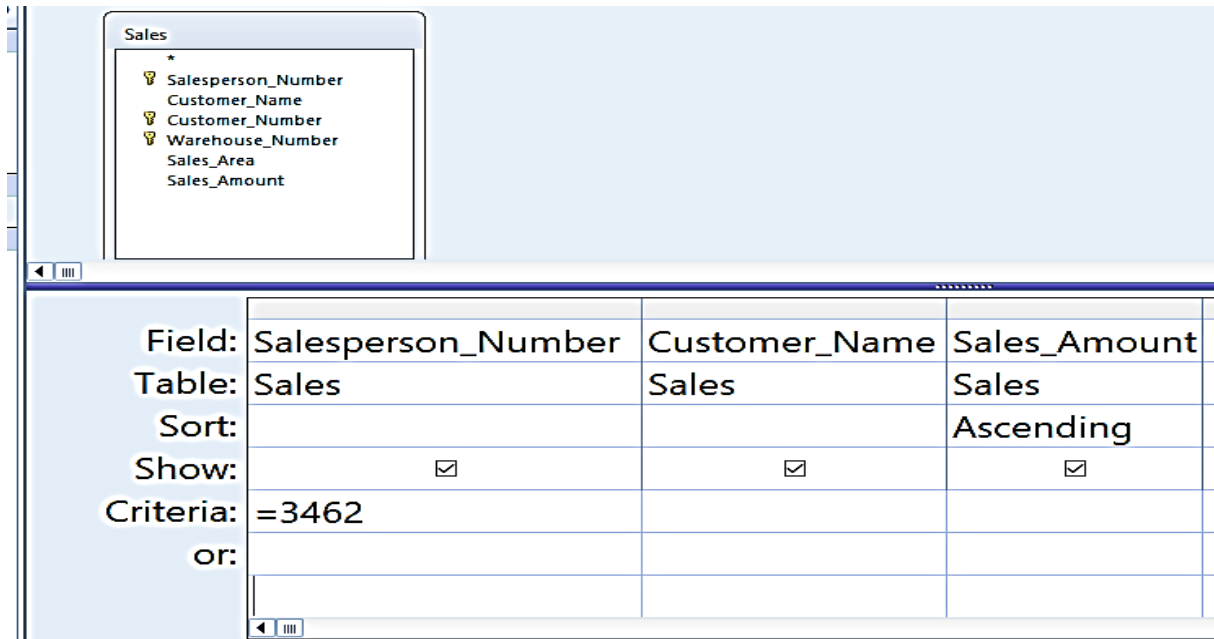
Sales				
Salesperson_Number ▾	Customer_Name ▾	Sales_Area ▾	Sales_Amount ▾	
3462	Delta Systems	West	13540	
3462	A.Levy and Sons	West	10600	
3462	Ranier Company	West	9700	
3593	R. w. Flood Inc.	East	11560	
3593	Seward Systems	East	2590	
3593	Stodola's Inc.	East	8800	

**Figure 8**

31. Assign appropriate data types for the following fields from Figure 8.

Fieldname	Data Type
Sales_Area	
Sales_Amount	

SL 2



**Figure 9**

32. Write the output of the query design in Figure 9 using the data in Figure 8 in the table below.

Salesperson_Number	Customer_Name	Sales_Amount

SL 2

33. Write the SQL query based on the design in Figure 9.

---



---



---



---



---



---



---



---

SL 4

34. Differentiate between a **Database Management System** and a **Database file**.

---

---

---

---

---

---

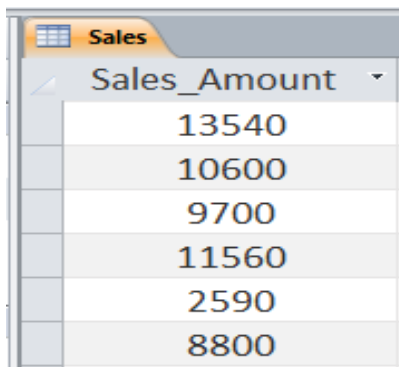
---

---

---

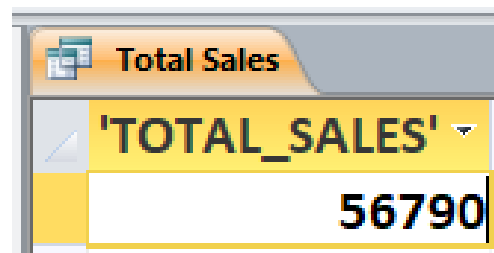
---

SL 3



Sales_Amount
13540
10600
9700
11560
2590
8800

**Figure 10**



Total Sales
'TOTAL_SALES' 56790

**Figure 11**

35. Write an SQL query to apply the correct function to **ADD** Sales\_Amount in Figure 10 and display as TOTAL\_SALES as shown in Figure 11.

---

---

---

---

---

---

---

---

---

---

SL 3



For Questions 36 and 37, choose and write the LETTER of the correct answer in the box provided.

36. Identify the symbol to represent input/output in a program flowchart from the following.

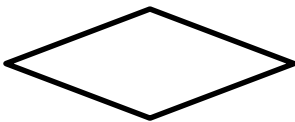
A.



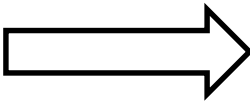
B.



C.



D.



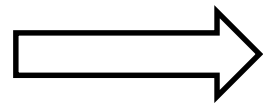
SL 1

37. Identify from the following the symbol to indicate a process that needs to be executed in a program.

A.



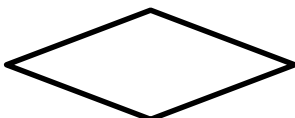
B.



C.



D.



SL 1

38. List TWO features of good computer programs.

---

---

---

---

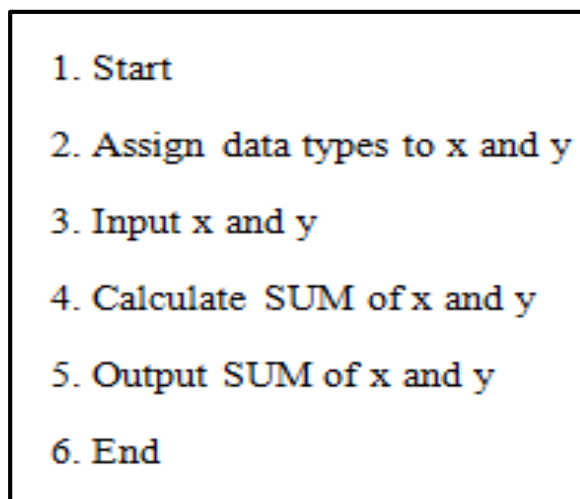
---

---

---

---

SL 2



**Figure 12**

39. Assign appropriate data types to x and y in Line 2 of Figure 12.

---

---

---

---

---

---

---

---

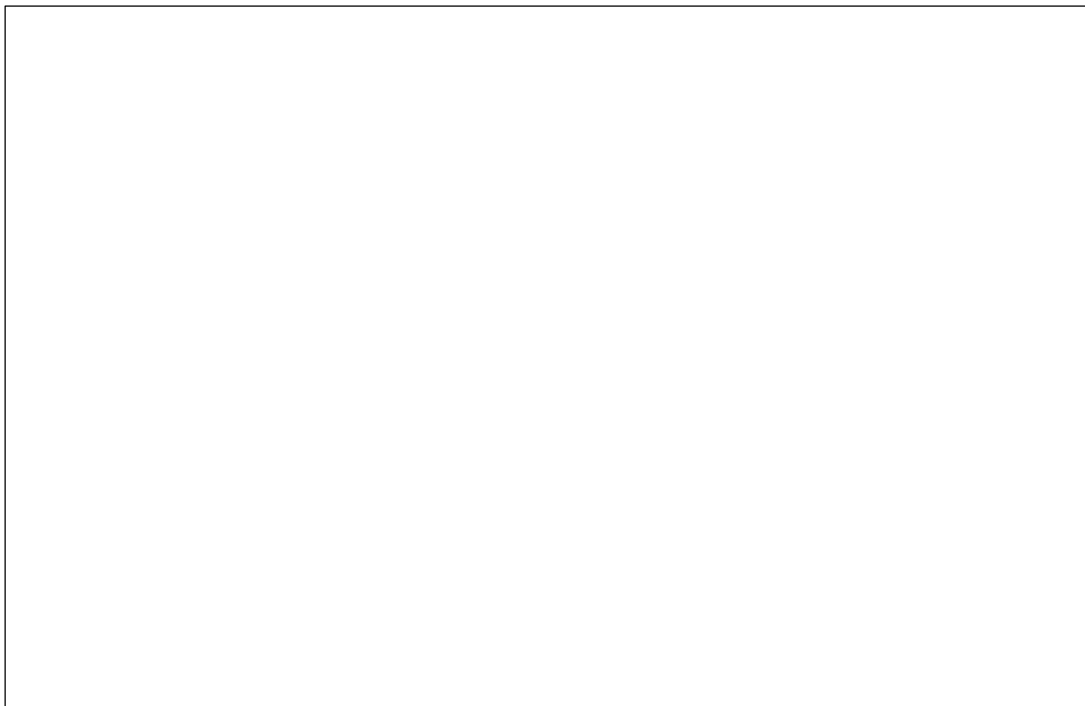
SL 2

40. Write a logical flowchart using the correct symbols to represent the tasks as listed in Figure 12.



SL 3

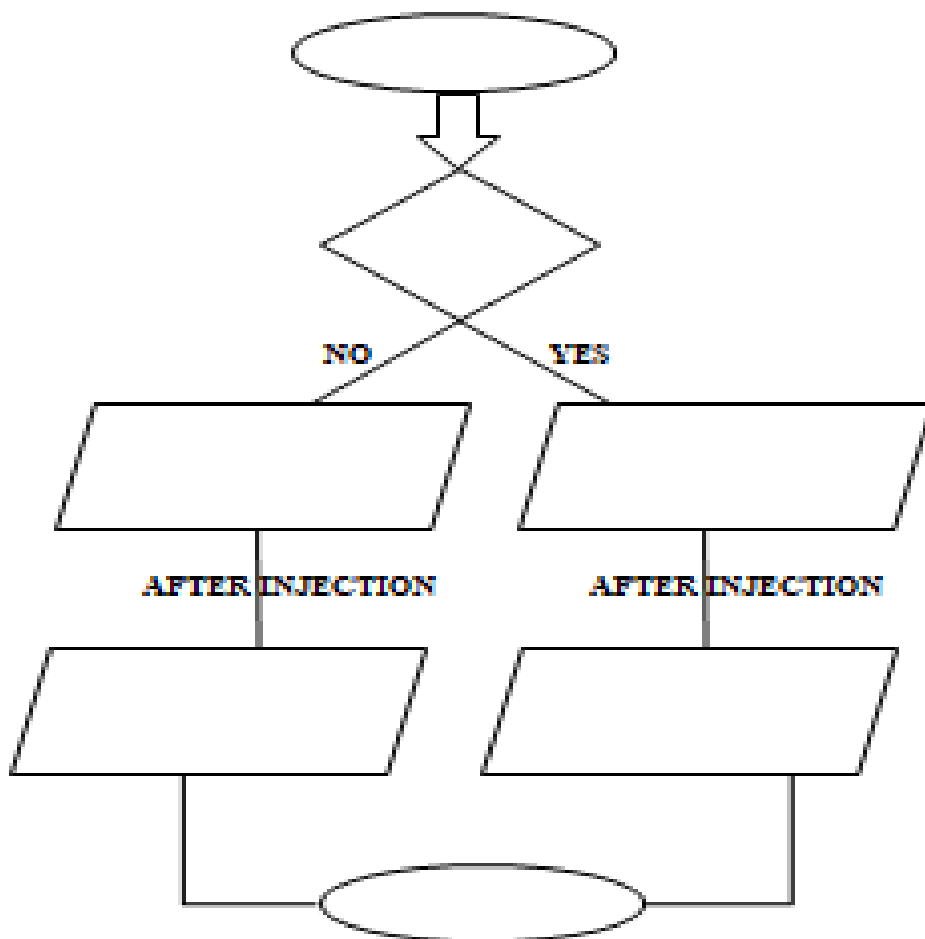
41. Write a program code to execute the tasks in Figure 12.



SL 4

42. Denzil wanted to write a program code to store information of people coming in to the hospital to do their vaccination for Dengue Fever.
1. When an individual arrives at the consultation room he/she will be asked to show their vaccination card. ***If they provide a vaccination card***, the nurse ***inputs*** these details and individual prepares for the ***second dose***.
  2. ***If individual has no vaccination card***, the nurse ***inputs*** the details and individual prepares for the ***first dose***.
  3. ***After the individual has received the injection***, the nurse ***inputs*** the details to confirm the individual has taken either dose 1 or dose 2.

Draw the flowchart to guide Denzil in his coding of the problem above by filling in the correct processes in Figure 13.



**Figure 13**

SL 3

43. Write a suitable algorithm to produce the required solution to Denzil's problem in Question 42.

STUDENT EDUCATION NUMBER									

## SSLC COMPUTER STUDIES

**2024**

*(For Scorers only)*

STRANDS		Weighting	Scores	Check Scorer	AED Check
<b>STRAND 1</b>	Personal Computer Systems and Management	40			
<b>STRAND 2</b>	Using Personal computer application	40			
<b>STRAND 3</b>	Fundamentals of Computer Programming	20			
<b>TOTAL</b>		100			