



STUDENT EDUCATION NUMBER									

Samoa Secondary Leaving Certificate

COMPUTER STUDIES

2021

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 at the appropriate places in this booklet.

STRANDS		Page	Time (min)	Weighting	
SECTION 1	MULTIPLE CHOICE	2	10	14	
SECTION 2	SHORT ANSWERS				
	STRAND 1	PERSONAL COMPUTER SYSTEMS AND MANAGEMENT	7	55	26
	STRAND 2	FUNDAMENTALS OF COMPUTER PROGRAMMING	12	35	8
	STRAND 3	USING PERSONAL COMPUTER APPLICATIONS	14	80	52
	TOTAL			180	100

Check that this booklet contains pages 2-24 in the correct order.

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

Choose the **BEST** answer and write the correct letter in the box provided.

1. Tusi created her file on the computer and saved it under the filename *lighting.docx*. Which program did Tusi use to create her file?

- A. MS Excel.
- B. MS Word.
- C. MS Access.
- D. MS PowerPoint.
- E. Linux 123.

SL 1

2. An example of an Application Software is:

- A. Windows 10.
- B. Keyboard.
- C. Laptop.
- D. MS Excel.
- E. Unix.

SL 1

3. All of the following are examples of basic elements of the Graphical User Interface (GUI) except one. Which one is this element? Select from the choices provided.

- A. Command buttons.
- B. Checkboxes.
- C. Hard drive.
- D. Menu bars.
- E. Toolbars.

SL 1

4. One of the following is NOT a component found inside the desktop computer box.
Select from the choices provided.

- A. Power supply.
- B. Hard drive.
- C. Cooling fan.
- D. Motherboard.
- E. Monitor.




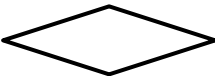
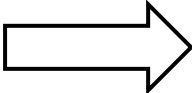
<input type="checkbox"/>	SL 1

5. April wanted to create a variable to store people's names in her JAVA program code.
What will be the appropriate data type to assign to this variable?

- A. String
- B. Double
- C. Char
- D. Int
- E. Short text

<input type="checkbox"/>	SL 1

6. Identify the symbol to indicate input/output in a logical flowchart.

- A. 
- B. 
- C. 
- D. 
- E. 

<input type="checkbox"/>	SL 1

7. What are the two types of **page orientation** you can apply when printing documents on the computer?
- A. Copy and Paste.
 - B. Landscape and Portrait.
 - C. Bold and Italic.
 - D. Find and Select.
 - E. Left and Right alignment.

	SL 1

Figure 1



8. Name the bullet setting alignment that is set on the ruler in Figure 1.
- A. Right
 - B. Left
 - C. Justified
 - D. Decimal
 - E. Centre

	SL 1

9. What is one type of cell which can be used to create a spreadsheet in MS Excel?
- A. Formula
 - B. Cell reference
 - C. Active cell
 - D. Cellular
 - E. Auto fill

	SL 1

10. The two types of **sorting** orders normally used to organize data are:

- A. find and replace.
- B. up and down.
- C. inside and outside.
- D. ascending and descending.
- E. right and left.

SL 1

11. MS Excel offers several types of graphs that one can use to present data graphically. Only one is listed in the following choices. Select that correct choice.

- A. Bar graph.
- B. Light graph.
- C. Round graph.
- D. Picture graph.
- E. Orange graph.

SL 1

12. Which of the following is a database file?

- A. SSLC.access
- B. SSLC.dbms
- C. SSLC.accmdb
- D. SSLC.dbs
- E. SSLC.dbf

SL 1

13. Sara wanted to create a database field called 'Birthdate' to store her friend's birthdays on her database. What will be an appropriate data type for this field?

- A. Birthday.
- B. Dateofbirth.
- C. Date/Time.
- D. Date.
- E. Time.

SL 1

Figure 2

	Name	Color	Quantity
1	Road Frames	Black	NULL
2	Road Frames	Red	NULL
3	Helmets	Red	288
4	Helmets	Black	324
5	Socks	White	180
6	Socks	White	216
7	Helmets	Blue	216
8	Caps	Multi	288
9	Jerseys	Multi	144
10	Jerseys	Multi	180
11	Jerseys	Multi	216
12	Jerseys	Multi	252

14. If the table in Figure 2 was sorted in Ascending order of names then one of the following will be true of the result.

- A. Caps will be the last name.
- B. Helmets with colour Blue will be second record.
- C. Road Frames with colour Black will be last.
- D. Socks will be the third record.
- E. Caps will be the first name.

SL 1

SECTION 2: SHORT ANSWERS

Use Figure 3 to answer Question 15.

Figure 3



15. Define the function of the computer component in Figure 3.

SL 2

16. A printer is a peripheral device which can be attached to the computer system. Describe why a printer is needed when creating documents from the computer.

SL 2

17. Evaluate why it is required to protect computers from computer viruses using anti-virus software.

SL 4

18. June created an essay on the computer and she wanted to keep a copy of her file by saving it using the **SAVE** option. Explain the idea of using this SAVE option to create June’s file.

SL 3

19. Discuss the significance of computer programmers in the ICT field.

SL 4

20. Describe the file naming principle of the filename *prizes.xls*

SL 2

21. Why is it important to regularly save and backup your files on the computer? Explain and provide an example.

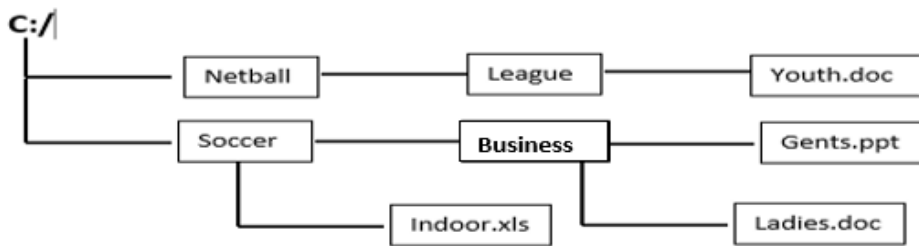
SL 3

22. Computer ethics is a group of standards or rules that control the fair and positive uses of computers. Discuss 4 examples of ethical issues in Computing.

SL 4

Use Figure 4 to answer Question 23.

Figure 4



23. Write the pathways of the following file and folder.

(i) Ladies.doc _____

(ii) Business _____

SL 2

24. Ioana wanted to develop a computer code to calculate percentage of votes for each election booth in her constituency based on the following results. The column headings can be variable names in the code.

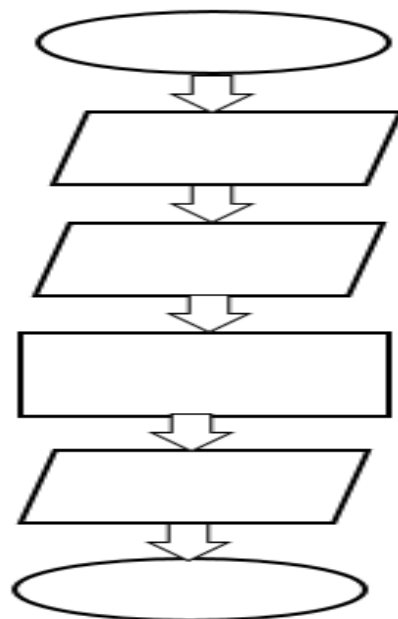
Election Booth#	Total Roll Number	Total Number of Casted Votes	Informal Votes	Percentage of Formal Votes
Booth #1	280	280	0	100%
Booth #2	500	500	0	100%
Booth #3	459	459	10	100%
Booth #4	800	800	2	100%

(i) What will be an appropriate data type to be assigned to **Election Booth#**?

SL 2

(ii) What is the suitable data type for **Percentage of Formal Votes**?

25. Draw the flowchart to guide Ioana in her coding of the problem in Question 24 above by filling in the correct processes in the chart provided.



SL 3

26. Write a suitable algorithm to produce the required solution to Ioana’s problem in Question 24.

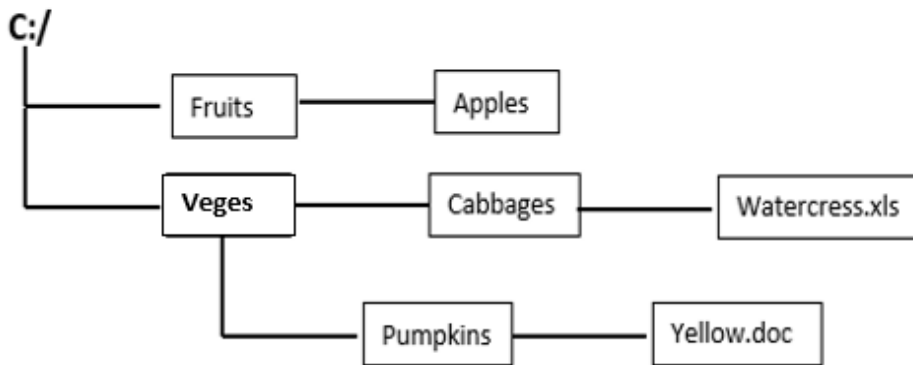
SL 3

27. List any 2 principles of word processing.

SL 2

Use Figure 5 to answer Question 28.

Figure 5



28. Write the result of the following search *p*s if it is run on the hierarchy in Figure 5.

SL 2

29. Discuss the following statement:

'People in the workplace are often empowered by word processing skills'. How?

SL 4

Use sentence (Figure 6) to answer Question 30.

Figure 6

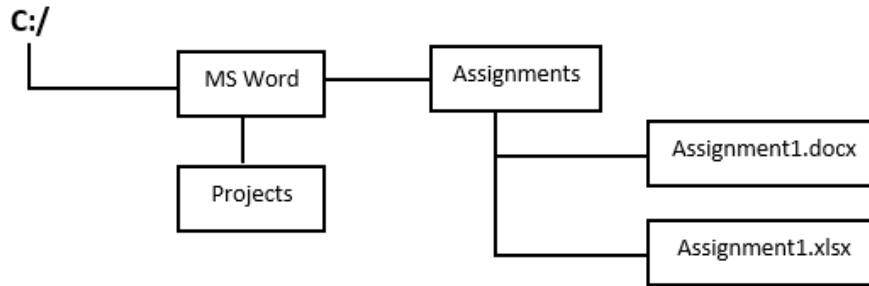
The mein problems with projects sponsored by aid is that the output are not clear.

30. The spell checker tool option was applied to the sentence and the result is shown in Figure 6. Explain the type of spelling errors underlined red and blue.

SL 3

Use Figure 7 to answer Question 31.

Figure 7



31. Hased wanted to modify his hierarchy in Figure 7 because his Excel file is a Project and should be stored in the Projects folder. Explain how Hased can achieve this task.

SL 4

Use Figure 8 to answer Question 32.

Figure 8

	A	B	C	D	E	F	G	H	I	J	K
1	Benji's Weekly Expenses Budget								SALE	50%	
2		School Lunch	Bus Fare	After School Sports	Rent	Church Offering	Shopping	Shopping 50% Discount			
3	Monday	\$10.00	\$ 5.00	\$ 10.00			\$ 200.00				
4	Tuesday	\$10.00	\$ 5.00								
5	Wednesday	\$10.00	\$ 5.00	\$ 10.00							
6	Thursday	\$10.00	\$ 5.00								
7	Friday	\$10.00	\$ 5.00	\$ 10.00	\$100.00						
8	Saturday		\$ 10.00								
9	Sunday		\$ 10.00			\$ 50.00					
10	TOTAL EXPENSES	\$50.00	\$ 45.00	\$ 30.00	\$100.00	\$ 50.00	\$ 200.00				
11											

32. Benji sometimes finds that sales are on the weekdays, so he goes whenever there is a sale either from Monday to Friday. There is a sale on Monday so Benji is happy to know that his usual shopping expense of \$200 on Monday will be reduced by 50%. Write the formula in H3 to calculate how much Benji will be paying using the 50% sale.

SL 3

Use Figure 9 to answer Questions 33 to 36.

Figure 9

	A	B	C	D	E	F	G	H	I	J	
30											
31				Year 13 Manono Canteen Fundraising							
32					Quantity	Selling Cost	Quantity Sold	Income Earned	Profit or Loss?		
33				Cupcakes	100	\$ 2.00	100	\$ 200.00	PROFIT		
34				Meat Pies	50	\$ 5.00	30	\$ 150.00			
35				Hot Dogs	60	\$ 3.00	40	\$ 120.00			
36				Tuna Sandwiches	50	\$ 2.00	50	\$ 100.00			
37				Egg Sandwiches	50	\$ 3.00	35	\$ 105.00			
38				TOTAL							
39											

33. List the **cell types** of the following cells:

1. H33 _____

2. G35 _____

SL 2

34. Study the nature of the data in cell I33 and list the **spreadsheet function** used to calculate the value in this cell.

SL 2

35. If the **Auto – Fill** function was used to drag the formula in I33 to I37, what will be the result of the formula in cell I35?

SL 2

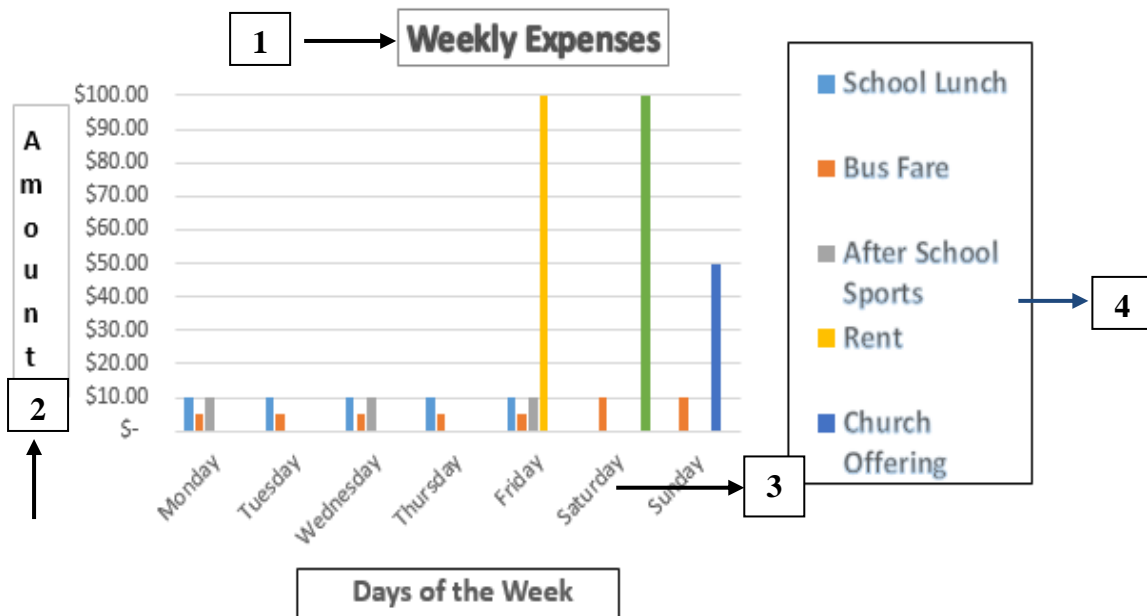
36. List the result of the first row if the spreadsheet is sorted to display the lowest *'Income Earned.'*

Year 13 Manono Canteen Fundraising					
	Quantity	Selling Cost	Quantity Sold	Income Earned	Profit or Loss?

SL 3

Use Figure 10 to answer Question 37.

Figure 10



37. Fill in the appropriate labels from Figure 10.

1. _____
2. _____
3. _____
4. _____

SL 4

38. When someone acquires spreadsheet skills it can be an advantage. Discuss.

SL 4

39. Justify the advantages of using a database.

SL 3

Use Figure 11 to answer Question 40.

Figure 11

Fieldname	Description
address_id	This field will store the unique ID of an address
street	
state	

Table –

Customers

address_id	street	city	state	zip_code
1	807 Grandrose Ave.	Yonkers	NY	10701
2	26 Market Drive	Forest Hills	NY	11375
3	60 Myers Dr.	Amityville	NY	11701
4	9782 Indian Spring Lane	Harlingen	TX	78552
5	167 James St.	Los Banos	CA	93635
6	755 East Henry Lane	Central Islip	NY	11722
7	8165 Baker Ave.	Franklin Square	NY	11010
8	669 S. Gartner Street	San Pablo	CA	94806
9	683 West Kirkland Dr.	East Northport	NY	11731
10	684 Westport Drive	Ballston Spa	NY	12020
11	720 Thompson Lane	Rego Park	NY	11374
12	973 Yukon Avenue	Encino	CA	91316
13	55 Cambridge Street	Plainview	NY	11803

40. Write an SQL query to display ALL Customers from 'NY' sorted by **DESCENDING** order of city.

SL 4

41. Complete the following table to show the appropriate descriptions of the fields listed from Figure 11. The first row is already filled in.

Fieldname	Description
address_id	This field will store the unique ID of an address
street	
state	

SL 2

42. Assign the appropriate data types of the following fields from Figure 11 listed in the table below.

Fieldname	Datatype
address_id	
city	

SL 2

43. Write the output of the following SQL query on the table in Figure 11 using the table provided.

```
SELECT *
FROM Customers
WHERE state = 'CA';
```

SL 2

address_id	street	city	state	zip_code

44. Mesepa wanted to create the database table in Figure 11 using **Design view**. Complete the table below with the necessary data types and field properties of the fields listed.

Figure 12

Fieldname	Data Type	Field Properties
street		
state		
zip_code		

SL 4

STUDENT EDUCATION NUMBER									

COMPUTER STUDIES

2021

(For Scorers only)

STRANDS		Weighting	Scores	Check Scorer	AED Check
SECTION 1	Multiple Choice	14			
STRAND 1	Personal Computer Systems And Management	26			
STRAND 2	Fundamentals Of Computer Programming	8			
STRAND 3	Using Personal Computer Applications	52			
TOTAL		100			