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SOLOMON ISLANDS NATIONAL FORM SIX CERTIFICATE 2019

COMPUTER STUDIES QUESTIONS and ANSWER BOOKLET

THURSDAY 7TH NOVEMBER 2.00 PM

**TIME: 3 Hours Plus 10 Minutes
Reading Time.**

INSTRUCTIONS AND INFORMATION

1. Answer **ALL** Questions
 2. There are **TWO** (2) Sections in this Paper:

Section A:	Multiple Choice Questions	(20 Marks)
Section B:	Short Answer Questions	(80 Marks)
-
- | | |
|---------------------|-------------------------|
| <u>TOTAL</u> | <u>100 Marks</u> |
|---------------------|-------------------------|
3. The **Answer Sheet** for Section A is on the back-flap on page 18. This is on the last page of this booklet. Write the answers for Section B and Section C in the spaces provided in this booklet.
 4. Write your **Student Personal Identification Number** (SPIN) on this page and on the back-flap of the booklet.
 5. Do NOT use correction fluid.
 6. Mobile phones are NOT allowed in the examination room.
 7. Check that this booklet contains pages **2-18** in the correct order. Page **17** have been left blank deliberately.

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

SECTION A: MULTIPLE CHOICE**[20 MARKS]**

ANSWER ALL QUESTIONS. WRITE THE LETTER OF THE BEST ANSWER FOR EACH QUESTION IN THE BACK-FLAP OF THIS BOOKLET. EACH QUESTION IS WORTH 1 MARK.

1. Which of the following devices is to enhance the computer's capabilities to connect to the motherboard and generates output images to display?
 - A. Keyboard.
 - B. Sound card.
 - C. Network card.
 - D. Graphics Card.

2. Chip-based operating system is an integrated circuit that integrates all components of a computer or other electronic system. Cell Phones uses which of the following operating systems?
 - A. Linux.
 - B. Android.
 - C. Windows 7.
 - D. Windows 10.

3. **Print Screen (Prt Sc)** key is one of the keys on the Personal Computer keyboard. What will be the result of pressing the **Print Screen** key on the keyboard?
 - A. Will capture the entire screen.
 - B. Will capture the currently selected window.
 - C. Will capture the entire keys on the keyboard.
 - D. Will capture the entire screen and the keys on the keyboard.

4. Paper jam during printing can be caused by;
 - A. printer driver is missing.
 - B. paper is loaded incorrectly.
 - C. toner cartridge is running low.
 - D. printer cable is not fixed properly to the computer.

5. **What is a ROM** in a computer? It is;
- A. volatile memory storage where data stored can only be read.
 - B. non-volatile memory storage where data stored can only be read.
 - C. a semi-permanent memory storage where data is stored only when there is power.
 - D. volatile memory storage where data stored can only be read when there is power.
6. You have a task to produce a document with some data that will require a lot of calculations by using formulas/functions and data analysis. What application would you think is the **best** option to use in order to produce the document?
- A. Microsoft Excel.
 - B. Microsoft Word.
 - C. Microsoft Access.
 - D. Microsoft Publisher.
7. Elements in Graphical User Interface (GUI) is a control of interaction. Which **element of GUI** allow the user to execute commands by selecting from a list of choices?
- A. Icon.
 - B. Menu.
 - C. Check boxes.
 - D. Command button.
8. Why are **file extensions** important?
- A. Helps users to search list of files slowly for the wanted files.
 - B. Helps users to sort or group related files not be copied by other users.
 - C. Will not allow users to quickly identify the nature of the file's content as security.
 - D. Helps an operating system to determine which program on your computer the file is associated with.

9. We can easily have access to a lot of data held in a computer but we must always be cautious of legal and ethical issues at all times to avoid penalties. What does it mean to have data **copyright**?
- A. The data protection and ownership of original data provided by law.
 - B. Security protection to guard persons or properties against fire or accident.
 - C. An ability of an individual or group to isolate information about themselves.
 - D. Security protection that allows users to copy original owner's data or properties provided under law.
10. At your school you have a teacher in charge of this subject, Computer Studies. In the **nature** of what he/she does in the subject at school, what would be the appropriate title you give him/her?
- A. Technician.
 - B. Software Engineer.
 - C. Training Specialist.
 - D. Network Operator.
11. A Word Processing **concept** that suggest another way to say what you mean is;
- A. Thesaurus.
 - B. Mail-Merge.
 - C. Word-wrapping.
 - D. Spelling & Grammar.
12. A Word Processing function feature to edit a document by searching for a text you would like to change and replace it with something else is;
- A. find.
 - B. go To.
 - C. search.
 - D. find and replace.

13. How many cells are there in the function, **=SUM (A2:A12)**?
- A. 2
 - B. 11
 - C. 12
 - D. A2: A12
14. Using the Fill Handle “+”, you drag the formula =B2+B3+B4 from cell C2 to E2. What will be the **resulting formula** in cell E2?
- A. =C2+E2
 - B. =B2+B3+B4
 - C. =D2+D3+D4
 - D. =E2+E3+E4
15. A feature in Excel that spans the label across multiple columns or rows is;
- A. Styles
 - B. Wrap Text
 - C. Orientation
 - D. Merge & Center
16. **Goal Seek** of What-If Analysis is used to find the;
- A. right input for the value you want.
 - B. new worksheet to predict data trends
 - C. result of multiple inputs at the same time.
 - D. values, scenarios and switch between them.
17. **Sex** is a field of a Student table in a School Database. Such Sex field could hold value **M** for Male or **F** for Female. What would be the BEST field size property for the Sex field?
- A. 1
 - B. 2
 - C. 4
 - D. 6

18. What does it mean by the following SQL statement?

[SELECT * FROM Students WHERE Sex="M";]

- A. Creates a query output with all student records.
- B. There will be no output due to error in the SQL Statement.
- C. Creates a query output with students' records whose sex are equal to M and F.
- D. Creates a query output from Students table with all students' records whose sex are equal to M only.

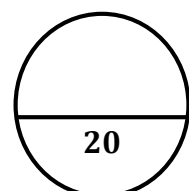
19. Data **integrity** means;

- A. Data redundancy.
- B. Data Independence.
- C. Data is more protected.
- D. Data is accurate and reliable.

20. When exporting data from a database table, query or report to a spreadsheet file;

- A. original data in the database will be deleted.
- B. all the formatting features and layout will change.
- C. changes in the spreadsheet file will not affect the source data in the database.
- D. changes made in the spreadsheet file is updated automatically in the database.

TOTAL MARKS FOR SECTION A:



SECTION B: SHORT ANSWER QUESTIONS**[80 MARKS]**

ALL FIVE (5) QUESTIONS ARE COMPULSORY. WRITE THE ANSWERS IN THE SPACES PROVIDED.

Question 1: Computer Systems I (20 Marks)

1. Describe the **role** of the two components that can be found inside the desktop computer box.

a) Motherboard

(2 marks)

b) Processor

(2 marks)

2. Printers can be connected to the desktop computer box. Describe the **factors** that would influence your choice to buy these following printers.

a) Laser Printer

(2 marks)

b) Inkjet Printer

(2 marks)

3. Solomon Power supplies power to Honiara city but sometimes power goes off without notice causing hardware faults and other problems to desktop computers.

a) Give TWO (2) examples of possible effects to desktop computers by unexpected power loss.

(2 marks)

b) Describe the approach to be taken to overcome the problems.

(2 marks)

4. Desktop computers cannot operate or function properly without operating systems.

a) Give TWO (2) examples of **Windows operating systems** popular today.

(2 marks)

b) Describe any **basic function** of an operating system.

(2 marks)

5. Computer data are stored in memory and disk storage.

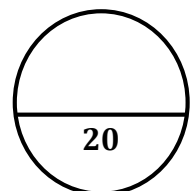
a) Differentiate the technology employed with memory and disk storage.

(2 marks)

- b) State ONE (1) ADVANTAGE and ONE (1) DISADVANTAGE of the data stored in the memory technology.

(2 marks)

TOTAL MARKS FOR SECTION B.Q1



Question 2: Computer Systems II

[20 Marks]

1. List THREE (3) critical **hardware components** you would look for when buying a new desktop computer and explain why you would need them.

a) _____

(3 marks)

b) _____

(3 marks)

c) _____

(3 marks)

2. As a student, what office application software would you need to be installed in your computer for your usage? List TWO (2) **applications** and why you would need them?

a) _____

(3 marks)

b) _____

(3 marks)

3. Describe how **system** software relates to **application** software?

(1 mark)

4. How does CPU work with the following devices?

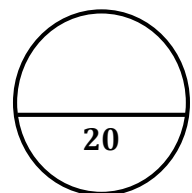
a) Storage and RAM

(2 marks)

b) Keyboard and Mouse

(2 marks)

TOTAL MARKS FOR SECTION B.Q2:



Question 3:**MS Word processing****[8 Marks]**

1. Differentiate a **text** processor and a **document** processor.

(2 marks)

2. List the steps you would need to do the following tasks in MS Word.

- a) Create a new document

(1 mark)

- b) Open an existing document file

(1 mark)

- c) Print an opened file

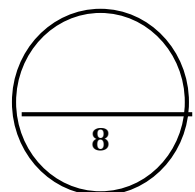
(1 mark)

3. Describe the difference between **Cut/Paste** and **Copy/Paste**.

(2 marks)

4. Name a **paragraph formatting feature** in MS Word.

(1 mark)

TOTAL MARKS FOR SECTION B.Q3:

Question 4: Spreadsheet**[16 marks]**

1. Describe ONE (1) ADVANTAGE of using a spreadsheet.

(2 marks)

2. Data could be a label, value or formula. We enter data in cells of a worksheet and sometimes we need to use cell references correctly using formulas. Write the cell reference or address of these following cell descriptions.

- a) Cell intersection at column A and row 4 as relative cell referencing:

(1 mark)

- b) A cell in which Column A is absolute and row 4 is relative:

(1 mark)

- c) A cell in which Column A is relative and row 4 is absolute:

(1 mark)

- d) A cell in which Column A is absolute and row 4 is absolute:

(1 mark)

3. Describe how you would load a spreadsheet file.

(2 marks)

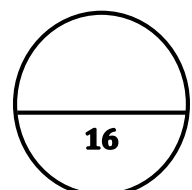
4. Study the spreadsheet below to answer questions (a – d) that follow. The spreadsheet shows quarterly sales of various products.

	A	B	C	D	E	F
1		Quarterly Sales				
2	Product	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Grant Total
3	Alice Mutton	\$ 2,667.60	\$ 4,013.10	\$ 4,836.00	\$ 6,087.90	\$ 17,604.60
4	Boston Crab Meat	\$ 1,768.41	\$ 1,978.00	\$ 4,412.32	\$ 1,656.00	\$ 9,814.73
5	Camembert Pierrot	\$ 3,182.40	\$ 4,683.50	\$ 9,579.50	\$ 3,060.00	\$ 20,505.40
6	Ipoh Coffee	\$ 1,398.40	\$ 4,496.50	\$ 1,196.00	\$ 3,979.00	\$ 11,069.90
7	Hot Pepper Sauce	\$ 1,347.36	\$ 2,750.69	\$ 1,375.62	\$ 3,899.51	\$ 9,373.18
8	Hot Spiced Okra	\$ 1,509.60	\$ 530.40	\$ 68.00	\$ 850.00	\$ 2,958.00
9	Mozzarella	\$ 1,390.00	\$ 4,488.20	\$ 3,027.60	\$ 2,697.00	\$ 11,602.80
10	Sir Rodney's Scones	\$ 1,462.00	\$ 644.00	\$ 1,733.00	\$ 1,434.00	\$ 5,273.00
11	Steeleye Stout	\$ 1,310.40	\$ 1,368.00	\$ 1,323.00	\$ 1,273.50	\$ 5,274.90
12	Veggie-spread	\$ 3,202.87	\$ 263.40	\$ 842.88	\$ 2,590.10	\$ 6,899.25
13	Grand Total	\$ 19,239.04	\$ 25,215.79	\$ 28,393.92	\$ 27,527.01	\$ 100,375.76
14						

Using SUM function, write the formulas for these following cells:

- a) F3 = _____ (2 marks)
- b) F8 = _____ (2 marks)
- c) B13 = _____ (2 marks)
- d) F13 = _____ (2 marks)

TOTAL MARKS FOR SECTION B.Q4:



1. Describe TWO (2) ADVANTAGES of using a database.

(4 marks)

2. Describe a database Table.

(2 marks)

3. A database design view is shown below in which data type is missing for each field name. Use the **design view** to give the appropriate data types for (a-f).

Medal		
Field Name	Data Type	Description (Optional)
MedalCode	a)	Sample data example is "1"
CountryCode	b)	Sample data example is "SI2019"
Name	c)	Sample data example is "Solomon Islands"
Gold	d)	Sample data example is "4"
Silver	e)	Sample data example is "12"
Bronze	f)	Sample data example is "19"

- a) _____ d) _____
- b) _____ e) _____
- c) _____ f) _____

(6 marks)

4. With this following Medal tally at the recent South Pacific (SP) games in Samoa 2019, the best top 12 countries were extracted as shown below.

Note: Use the Sample data from **Medal** table to write the SQL Query below.

MedalCode	Country	Gold	Silver	Bronze	Total
1	New Caledonia	76	55	51	182
2	Papua New Guinea	38	57	35	130
3	Samoa	38	42	45	125
4	Tahiti	35	39	45	119
5	Fiji Islands	35	38	43	116
6	Australia	33	9	14	56
7	Solomon Islands	4	13	19	36
8	Nauru	12	6	16	34
9	Tonga	9	5	14	28
10	Vanuatu	8	5	12	25
11	Kiribati	6	10	9	25
12	New Zealand	8	10	6	24

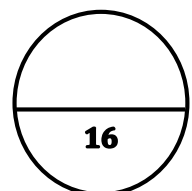
Source: <https://pacificgames.pngfacts.com/2019-results>

Write the SQL statements to show a list of all records from the Medal table sorted in ascending order by the Country field.

SQL statement

(4 marks)

TOTAL MARKS FOR SECTION B.Q5:



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SINF6 COMPUTER STUDIES 2019

Student Personal Identification Number

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SECTION A

MULTIPLE CHOICE (20 MARKS)

Write clearly the letter of the correct answer in the box provided. Make sure your answer is put alongside the right question number.

B

EXAMPLE:

If you consider B is the correct answer, write it like this:

To change your answer from B to C, cross out B and write the new answer by the box, like this:



- | | |
|--------------------------|--------------------------|
| 1. <input type="text"/> | 11. <input type="text"/> |
| 2. <input type="text"/> | 12. <input type="text"/> |
| 3. <input type="text"/> | 13. <input type="text"/> |
| 4. <input type="text"/> | 14. <input type="text"/> |
| 5. <input type="text"/> | 15. <input type="text"/> |
| 6. <input type="text"/> | 16. <input type="text"/> |
| 7. <input type="text"/> | 17. <input type="text"/> |
| 8. <input type="text"/> | 18. <input type="text"/> |
| 9. <input type="text"/> | 19. <input type="text"/> |
| 10. <input type="text"/> | 20. <input type="text"/> |

FOR MARKER USE ONLY

SECTION	MARKS	MARKER	CHECKER
A	20		
B. Q1	20		
B. Q2	20		
B. Q3	8		
B. Q4	16		
B. Q5	16		
TOTAL	100		
Marker/ Checker Initials			