Term: II Session: 2023-24



Name: _	
Date: _	 _

#### 1) Fill in the blanks.

failure
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- 1. Micro:bit is a physical computing device.
- 2. **Keyboard** is an input device.
- 3. Sub-routine blocks can be created from my blocks in the palette.
- 4. Network failure is when a fault with hardware or software stops a network working properly.
- 5. **Text** files are made up of letters, numbers, symbols, and blank spaces.

## 2) State whether the statements are true or false.

1.	Encrypted data is known as ciphertext.	<b>True</b>

2. Application software are programs that carry out a specific task. **True** 

3. Indefinite (forever) loops where instructions repeat a number of times before stopping. False

4. Many devices are operated using a control system. True

5. Scratch is an example of a system software. False

6. Light sensors are not found in streetlights. False

7. Criminals often steal personal information for financial gain. True

8. The Caesar cipher is also known as a substitution cipher. True

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### 3) Match the following.

1. Android	a) Input device
2. keyboard	b) System software
3. Caesar cipher	c) Exchange letters for symbols
4. High quality video	d) Replaces each letter with a new letter
5. Pigpen cipher	e) Physical computing device
6. Micro:bit	f) More storage

1.	2.	3.	4.	5	6.
b)	a)	d)	f)	c)	e)

## 4) Answer the following.

1. Ms. Sama is an engineer, designing a new washing machine with advanced features. She needs to explain the input, process, and output stages of the system to her team. Can you help her identify these stages?

Input: <u>User selects wash cycle</u>, temperature settings, add detergent.

Process: Water filling, rinsing, spinning.

Output: <u>Dirty water drained out, beep sound and clean clothes.</u>

2. Write one difference between application software and system software.

Application software are programs that carry out a specific task whereas system software are programs that control how the computer systems functions.

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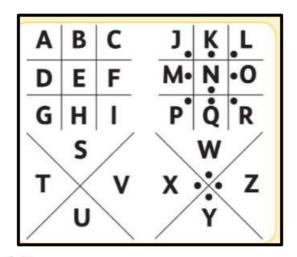


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#### 3. What is a data logger?

Data logger is an electronic device that contains a sensor, a processor, and some way to store data.

4. Encrypt and decrypt the words with the pigpen encryption technique.



a.	COMPUTER:	LE:	]	\ >				
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h.	П	П		•	HELLO
υ.		ш	_	_	IILLLO

5. Encrypt the words using the Caesar cipher technique. (KEY - 4)

# ABCDEFGHIJKLMNOPQRSTUVWXYZ

G	0	0	D	L	U	С	К
К	S	S	н	Р	Y	G	0