Total Marks: 10
Time: 20 Minutes

TNG
The Next Generation
School

Name: _____
Date: _____

ALGORITHM WITH SELECTION

I.   Look at the following **If… Then** statements.   **[5]**

1. If I am hungry, then I will eat.

2. If a polygon has 3 sides, then it is a triangle.

3. If I complete my homework, then I can play video games.

4. If it is raining, then I will stay indoors.

5. If it is my birthday, then I will get cake.

Identify the **condition** and the **conclusion** and write it below in the given boxes.

	CONDITION	CONCLUSION
1.		
2.		
3.		
4.		
5.		

II.   Complete the given algorithm and answer the given questions.   **[5]**

a. **Instructions for first algorithm:**   **[1]**

When the green flag is clicked, the **butterfly** glides for 1 seconds towards the bat.

Algorithm for the Butterfly	
Step	**Instruction**
❶	Start when _____
❷	Glide for _____ second to _____
❸	Stop program

b. **Instructions for Second algorithm:** [1]

When the green flag is clicked, if the **bat** touches the **butterfly**, then bat will go to a random position.

Algorithm for the Bat	
Step	**Instruction**
①	Start when _____
②	Wait 1 second
③	3.1 If the _____ is touching the _____, then
	3.1.1 Go to a _____
④	Stop program

c. Identify the condition and conclusion in the second algorithm i.e. **algorithm for the bat.** [1]

Condition _____

Conclusion _____

d. Edit the **algorithm for the butterfly** to repeat step 2 five times in total. [2]

_____

_____

_____

_____

_____

_____

_____

_____