




STUDENT SECTION				
Name			Class	
Student MOE number (SIS)		School MOE Number		STUDENT SIGNATURE
School name				

Design Technology
Grade 9
Term 2 Sample Exam
Date: February 2018
Time: TBC
Duration: 30 minutes

STUDENT INSTRUCTIONS – Students must attempt all questions. For this examination, you must have: 1. A blue ink pen. 2. A pencil.

TEACHER NOTES & INSTRUCTIONS Please tick  the correct answers in RED INK and then write the mark awarded in the marking columns. With multiple mark answers highlight where the mark is awarded by underlining or by using an extra tick.

FOR ADMIN ONLY	
MARKING RECORD	
Section	Section TOTALS
Section 1	
Section 2	
Section 3	
Section 4	
MARKER SIGNATURE	TOTAL MARKS
MODERATOR SIGNATURE	

SECTION 1 – Match the Definition to the Key Word

Write the matching letter in the correct box. The first one has been done for you.
(1 mark each)

Key Words

Definitions

Example Process	F
---------------------------	----------

F. Actions performed based on input.

1. Input	
2. Medical Robot	
3. Output	
4. Flowchart	

A. Results produced based on input and process.
B. Diagram that shows workflow or process.
C. Instructions given to perform a specific task.
D. Helps doctors do their work.

/ 4

SECTION 2 – Multiple Choice Questions

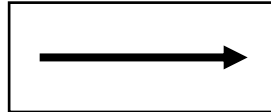
Choose and circle the correct answer – A, B, C or D.

(1 mark each)

Example: Actions performed based on input is called -

- A. operation.
- B. flowchart.
- C. process.
- D. organization.

1. What is the name of this symbol?



- A. Signal
- B. Flowchart
- C. Decision
- D. Flow line

2. Which of the following values is an example of an integer datatype?

- A. 45
- B. 2 / 3
- C. 0.9
- D. art

3. What does “a && b” stand for?

- A. “a” OR “b”
- B. “a” NOT “b”
- C. “a” AND “b”
- D. “a” EQUALS “b”

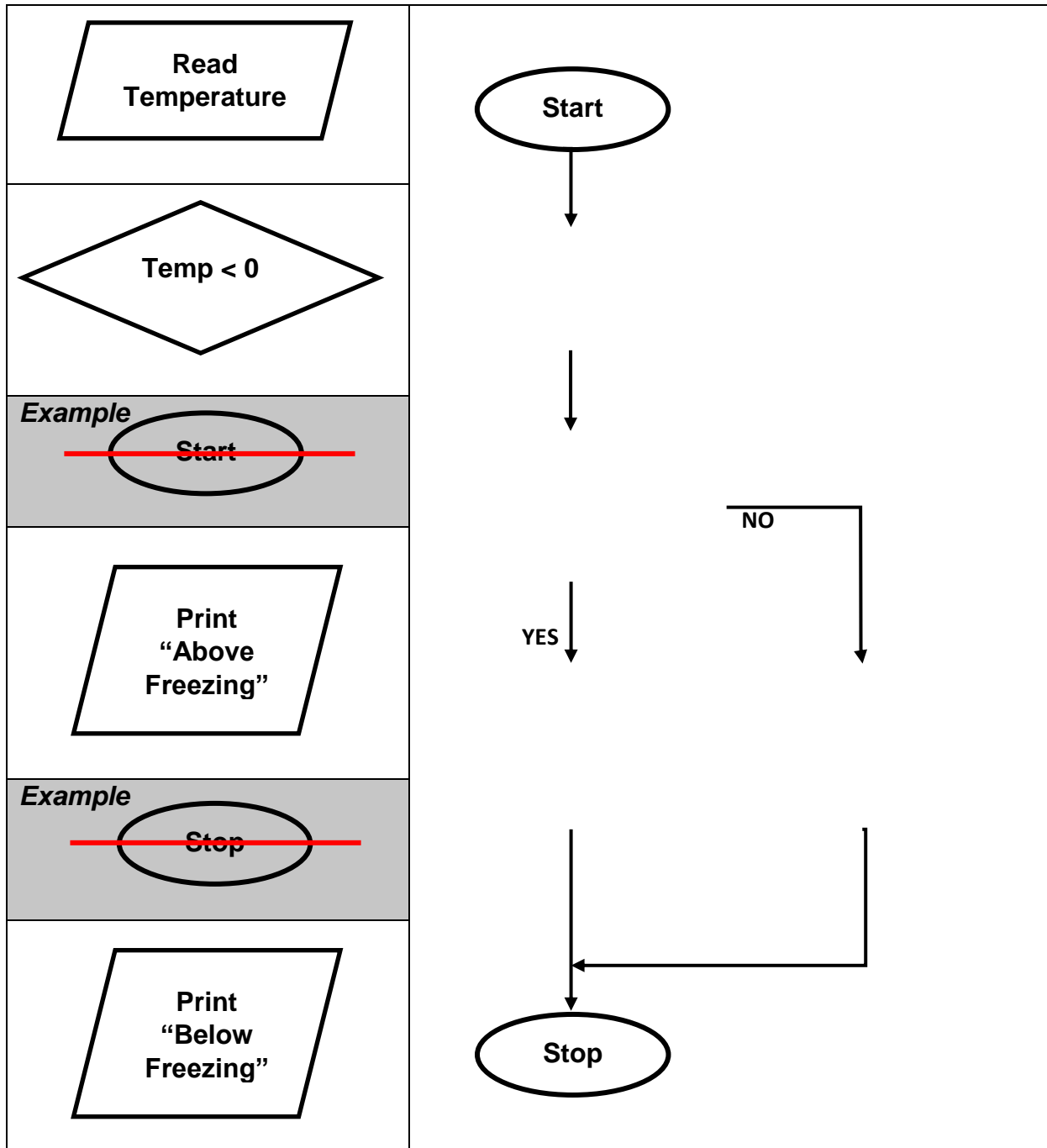
4. What datatype would you use to store a user’s name?

- A. integer
- B. float
- C. char
- D. string

SECTION 3 – Sequencing

The flowchart given below checks whether the input temperature is “Above Freezing” or “Below Freezing”.

Complete the flowchart with the options given below in a correct order. “Start” and “Stop” are completed for you as examples.



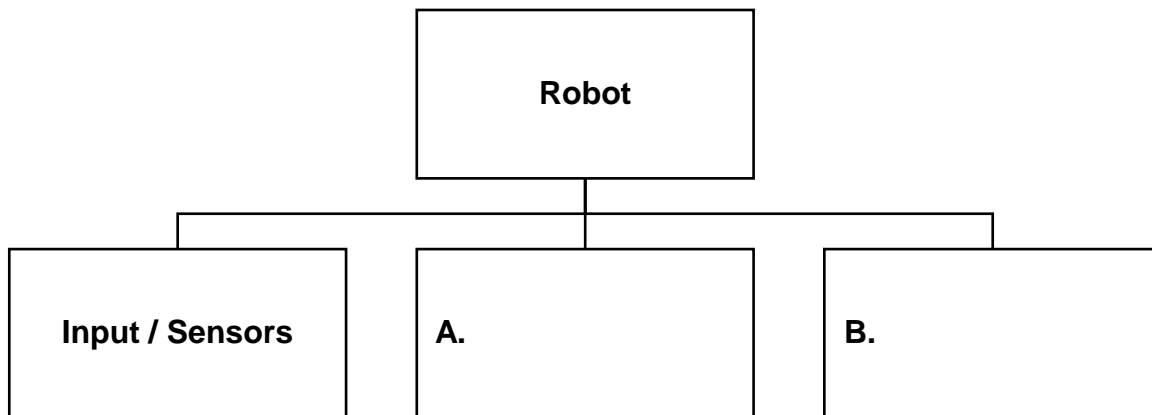
SECTION 4 – Short Answer Questions

1. What are autonomous robots?

(2 marks)

2. Complete the main parts of a robot.

(2 marks)



3. Write down two types of sensors used in a robot.

a) _____

b) _____ (2 marks)

4. Give two examples of mathematical operators.

a) _____

b) _____ (2 marks)

/ 8

TOTAL
/ 20

You have now finished the examination.