

تم تحميل هذا الملف من موقع المناهج الإماراتية



*للحصول على أوراق عمل لجميع الصفوف وجميع المواد اضغط هنا

<https://almanahj.com/ae>

* للحصول على أوراق عمل لجميع مواد الصف السابع اضغط هنا <https://almanahj.com/ae/7>

* للحصول على جميع أوراق الصف السابع في مادة تصميم ولجميع الفصول, اضغط هنا [7design/ae/com.almanahj//:https](https://almanahj.com/ae/7design)

* للحصول على أوراق عمل لجميع مواد الصف السابع في مادة تصميم الخاصة بـ الفصل الثاني اضغط هنا

<https://almanahj.com/ae/7design2>

* لتحميل كتب جميع المواد في جميع الفصول للـ الصف السابع اضغط هنا [grade7/ae/com.almanahj//:https](https://almanahj.com/ae/grade7)

للتحدث إلى بوت المناهج على تلغرام: اضغط هنا [bot_almanahj/me.t//:https](https://t.me/bot_almanahj)



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

Design Technology

Grade 7

Term 2 Sample Examination


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 Diagram to the Key Word

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





Key Words

Diagrams

<p><i>Example</i> Battery</p>	<p>F</p>
-----------------------------------	----------

<p>F.</p>	
-----------	---

<p>1. Fan</p>	
<p>2. Buzzer</p>	
<p>3. Motor</p>	
<p>4. LED</p>	

<p>A.</p>	
<p>B.</p>	
<p>C.</p>	
<p>D.</p>	

<p>/ 4</p>

SECTION 2 – Multiple Choice Questions

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

(1 mark each)

Example: An example of an electrical power source -

- A. robot.
- B. microcontroller.
- C. battery.

1. Light sensors are used in _____.
 - A. thermometers
 - B. air conditioning
 - C. street lamps

2. The place where power or information enters in a system is known as:
 - A. input.
 - B. output.
 - C. RAM

3. A sensor that detects infrared radiation is known as a:
 - A. humidity sensor.
 - B. IR sensor.
 - C. temperature sensor.

4. Which operator means **greater than or equal to**?
 - A. >=
 - B. <=
 - C. !=

/ 4

SECTION 3 – True or False

Choose and circle the correct answer TRUE or FALSE.

(1 mark each)

Example:

A battery is an example of an electrical power source.

TRUE FALSE

1. The *Edison* uses four AAA batteries.

TRUE FALSE

2. A buzzer is a type of actuator.

TRUE FALSE

3. A control system acts as a hand for a system.

TRUE FALSE

4. EdPy is a visual programming software.

TRUE FALSE

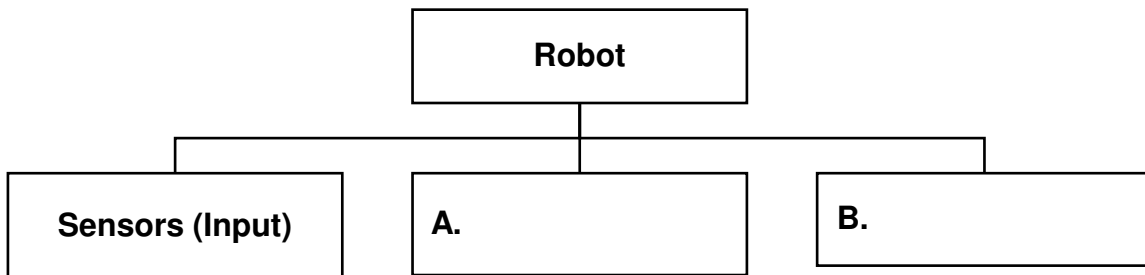
/ 4

SECTION 4 – Short Answer Questions

1. What is a robot?

(2 marks)

2. Complete the main parts of a robot. (2 marks)



3. List two types of sensors found in a robot. (2 marks)

a) _____

b) _____

4. Read the following section of EdPy code and answer the questions below (in 1 or 2 words).

```
While True:
    Obs = Ed.ReadObstacleDetection()
    if Obs == Ed.OBSTACLE_AHEAD:
        Ed.LeftLed(Ed.ON)
        Ed.RightLed(Ed.ON)
    elif Obs == Ed.OBSTACLE_RIGHT:
        Ed.LeftLed(Ed.ON)
        Ed.RightLed(Ed.OFF)
    elif Obs == Ed.OBSTACLE_LEFT:
        Ed.LeftLed(Ed.OFF)
        Ed.RightLed(Ed.ON)
```

- 4 (a) Which LED on the *Edison* will light up when the obstacle is on the right?

_____ (1 mark)

- 4 (b) Which LED on the *Edison* will light up when the obstacle is on the left?

_____ (1 mark)

/ 8

TOTAL

/ 20

You have now finished the examination.



Design Technology

Grade 7 Sample - Term 2 - Answer Key

Where student responses may vary please use your professional judgment. Be reasonable and award marks **ONLY** when deserved for answers given.

Marks will be awarded as indicated on the examination paper. Specific mark breakdowns for questions will be written when necessary.

Section 1 - Matching

Question	Answer
1	B
2	A
3	D
4	C

Section 2 – Multiple Choice

Question	Answer
1	C
2	A
3	B
4	A

Section 3 – True or False

1 mark each

1. True
2. True
3. False
4. False

Section 4 – Short Answer Questions

Question	Answer
1	2 marks A machine programmed by a computer to carry out actions
2	1 mark each A. Control System / Brain B. Output / Actuator
3	1 mark each ANY TWO of the following – <ul style="list-style-type: none">• Light Sensor.• Ultrasonic Sensor.• Sound Sensor.• Touch sensor.• Temperature Sensor.• Humidity Sensor.
4	1 mark each a) Left LED b) Right LED