

LEGO® MINDSTORMS® Courses Quiz Answer Sheet

Robots Got Talents 2019, 2020

QUESTIONS	MARKS
QUESTION 1	2
QUESTION 2	2
QUESTION 3	4
QUESTION 4	2
QUESTION 5	1
QUESTION 6	2
QUESTION 7	2
QUESTION 8	2
QUESTION 9	3
TOTAL MARKS	20

Copyright © 2019-2020 by Robots Got Talents. All rights reserved. LEGO® and MINDSTORMS® are registered trademarks of The LEGO® Group. Robots Got Talents is neither affiliated with nor endorsed by the LEGO® Group.

PART ONE (ROBOTICS)

1- How many characteristics a machine should have to be counted as a robot?

Circle Only One Choice

2

4

6

3

2- Mention and Explain One of them

Sensing: + Appropriate Description

Movement: + Appropriate Description

Energy: + Appropriate Description

Intelligence: + Appropriate Description

ANY OF THE ABOVE

3- Give some examples of Robots Uses:

You must mention a minimum of 2 uses

Industrial

Aerospace

Healthcare

Military

OR ANY APPROPRIATE ANSWER

4- This Robot Could be used in field of:

Circle the correct answer



Astronomy (space)

Industry (manufacture)

Military

FOR MINDSTORMS EV3 USERS:

Skip to the next if using NXT

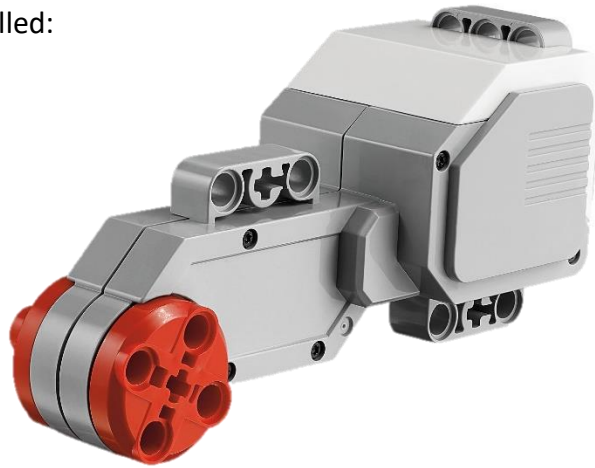
- 5- Name The electronic component that controls the operation of the robot by the following instructions contained in the stored program in Mindstorms Robots.

The EV3(Optional) Brick

- 6- How many sensors ports are in the EV3 Brick?

4 ports

- 7- This Component is called:
Circle Only One Choice



**EV3 LARGE
MOTOR**

**EV3 MEDIUM
MOTOR**

**EV3 TOUCH
SENSOR**

NXT MOTOR

FOR MINDSTORMS NXT USERS:

Skip to the next if using EV3

- 5- Name The electronic component that controls the operation of the robot by the following instructions contained in the stored program in Mindstorms Robots.

The NXT(Optional) Brick

- 6- How many motor ports are in the NXT Brick?

3 ports

- 7- This Component is responsible for:

Circle Only One Choice



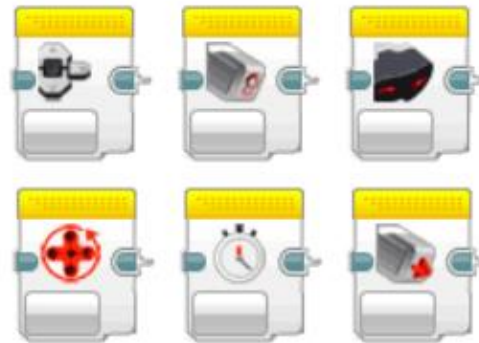
MEASURING
SOUND

SENDING AND
RECEIVING SOUND
WAVES

RECOGNIZING
COLOUR

MEASURING
TEMPERATURE

PART TWO (MINDSTORMS PROGRAMMING)



8- This group is called:

Action Blocks

Flow Blocks

Sensor Blocks

Advanced Blocks



PORTS:

[B=right motor, C=left motor, A= arm and D=claw]

9- Explain the blocks above:

The robot moves forward 3 rotations, with Motors B & C [Move Steering Block]

Then it turns right 90 degrees with motor B [Motor Block]

Then it moves backward for 5 seconds [Move Steering Block]

The speed in the whole mission is 50 [OPTIONAL]