

1. a.

Computer Engineering

What is an 'autonomous' robot?



Western Technical-Commercial School

Name: Date:

Section:

Tetrix Microcontrollers Assignment #1 Questions

Answer questions in sentence form neatly in the space provided. Use the website, Tetrix builder and programming guides to help you answer these questions. 1/2 mark for quick answers and 1 mark for each explanation, see left column for mark breakdown.

Mark Breakdown Column		2. elec	What are two safety rules each for sanitization, mechanical, and trical concerns?
Colu	mn	a.	
Q#	Α		
1	1.5	b.	
2	3	.	
3	1.5		
4	2	C.	
5	2		
6	4		
7	1	3.	Explain what Arduino code is?
8	2	a.	
9	2		
10	2	4.	What are Microcontrollers and where are they used?
11	2	a.	
12	1		
13	6		
14	3		
15 16	3	5.	What does Arduino IDE stand for and what does it do?
T=	40		What does Ardumo IDE stand for and what does it do:
1-	40	a.	
		6.	What is the name of the microcontroller, amount of memory, number of
		serv	o ports, and the power requirements?
		a.	
		7.	What are sketches in Arduino?
		8.	
			ch Tetrix kit do we have, its cost, and number of parts?
		a.	
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Name:

	9. Wh	at is the purpose of the battery pack that is mounted to the Tetrix?
	10.	What is Ardublockly and why is it used instead of Arduino IDE?
Mark Breakdown Column	11.	What is the difference between the DC motor and the servo motor?
Q# A 1 1. 2 3		, ,
2 3 3 1. 4 2	a.	
5 2 6 4 7 1		What are the two main sensors that come in the Tetrix kit and explain they do, and how they do it?
8 2 9 2 10 2		
11 2 12 1 13 6		Name and describe 3 coding standards you should be doing when you your own code?
14 315 416 3		
Γ= 4(the Te	Name and explain the two main types of fastening systems used to put etrix bot together?
		What is the difference of using the R/C remote controller with signal ver vs using the onboard microcontroller on the Tetrix, and which of the two dyou learn a lot more from?