Computer Engineering
Western Technical-Commercial School

Name:

Date: Section:

Microcontrollers Assignment #1 Questions

Answer questions in sentence form neatly in the space provided. Use the boe-bot student reference manual guide to help you answer these questions

1/2 mark for quick answers and 1 mark for each explanation, see mark breakdown column also.

1. What is an 'autonomous' robot?

   a. _____

   _____.

2. Name and explain what the acronym PBASIC stands for?

   a. _____

   _____.

   b. _____

   _____.

   c. _____

   _____.

   d. _____

   _____.

   e. _____

   _____.

   f. _____

   _____.

3. What are Microcontrollers and where are they used?

   a. _____

   _____

   _____

   _____.

4. Where, on the Internet, can you get the BASIC Stamp Editor? Include the specific URL.

   a. _____

5. What is the purpose of each of the three positions of the 'three position switch' (found on the Board of Education). In your description, call them position 0, position 1 and position 2.

   a. _____.

   b. _____.

   c. _____.

Mark Breakdown Column

Q#	A
1	2
2	9
3	3
4	1
5	3
6	3
7	2
8	2
9	1
T=	26

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Microcontrollers Assignment #1 Questions Continued

6. What is the purpose of the battery pack that can be mounted to the Boe-bot?

a. _____

_____

_____

*Mark
Breakdown
Column*

7. What are the electrical specifications for a plug-in power supply compatible with the Board of Education - BofE? Be sure to include: input voltage; output voltage; and polarity (center positive or negative?)

a. _____.

b. _____.

c. _____.

Q#	A
1	2
2	9
3	3
4	1
5	3
6	3
7	2
8	2
9	1
T=	26

8. When does the green power light on the BofE come on? Does it come on as soon as you connect the power supply? Why or why not?

a. _____

_____

_____.

9. What is the special syntax used in PBASIC to denote that the characters to follow are a 'comment' to be ignored by the compiler?

a. _____

_____

_____.