IME 408 Industrial Robotics -- Edwards

Test I

June 12, 2020

Answer the Following Questions to the Best of Your Ability – GOOD LUCK!!

<u>SA</u>

AFETY FIRST!!!		
1)	If there were an incident in the Robotics Lab which required Emergency attention, what telephone number should you call if you were to use your cell phone?	
	b) Why THIS number??	

2) If we wish to get into a control panel on a Robot and it is unplugged, then we safe.

True

False

3)	If you need to go into a robotic work cell, Turning the Teach Pendant "On" and taking i into a robotic work cell is a layer of safety.		
		True	False
	Why??		
4)	Name at least 3 industry applications where Robo	ots can be used.	
٠,	name at least 3 maasti y applications where hose	no can be asea.	
4)	Do some of the Classic 7 forms of Wastes apply to	robots/robotic systems as we	·II?

5) Name 3 different <u>Robotic</u> Coordinate Systems on a Robot Teach Pendant.
1.
2.
3.
6) In a Cartesian coordinate system, How many data points are in need to determine position and orientation of an object?
What are they?
1.
2.
3.
4.
5.
6.

7) An Advantage of Robots is that they are precise and repeatab	le.	
	True	False
8) Name a Robotic simulation software package.		
9) Ideally, a Body Shop wishes to Build in Large Batch Sizes.	True	False
10) Robots and automation are always the solution to a manufa	cturing issue.	
	True	False

Extra Credit

) Who is the Manufacturer of our "4 Beetles" robots??
I) What is a Unimate and its significance?
II) Who wrote the Book "The Goal?"
What was the Overweight Boy Scout's Name?