Day 2 Test

1. What components make up a robot system?
2. How many robot coordinate systems are there?
3. How do you change the robot coordinate system?
4. When manually operating the robot in the XYZ coordinate system, what is the rule that should be followed to verify robot movement?
5. **Scenario:** You must jog the robot. The machine is in manual mode and the robot teach pendant is on. You hold down the Deadman switch, the shift key, and +X. Are you able to jog the robot?
   1. Yes, the robot moves in the positive X direction.
   2. Yes, but the robot moves in an unexpected direction.
   3. No, the robot controller is still in auto mode and must be turned to T1 mode before manual robot motions may occur.
   4. No, the robot will not move unless a program is called.
6. What is a DCS and what does DCS stand for?
7. What is manual mode intended for?
8. Why would maintenance personnel need to set up a tote present sensor?
9. Scanning devices, sensors, and light curtains should be wiped down daily with what?
10. **T/F:** The robot EOAT does not have lubrication points.

Day 2 Test Answer Key

1. Mechanical Unit (robot), software, controller and teach pendant, end of arm tooling
2. Three; Joint, XYZ, and Tool
3. Push the Coordinate button (COOR) on the robot teach pendant.
4. Right hand rule
5. C
6. Dual Check Safety; a safety option provided by Fanuc that checks the speed and position of the robot with two CPUs. DCS zones prevent crashes and damage to the robot.
7. Maintenance and troubleshooting.
8. The tote present sensor has been replaced, and must be set up before use.
9. Clean cloth and general glass cleaner.
10. False.