



Industrial Electronics
Assignment

Question No 1. Multiple choice Questions

1. Does the severity of an electric shock increase or decrease with each of the following changes?
 - a. A decrease in the source voltage
 - b. An increase in body current flow
 - c. An increase in body resistance
 - d. A decrease in the length of time of exposure

2. State the piece of electrical safety equipment that should be used to perform each of the following tasks:
 - a. A switching operation where there is a risk of injury to the eyes or face from an electric arc.
 - b. Using a multimeter to verify the line voltage on a 3-phase 480 volt system.
 - c. Opening a manually operated high-voltage disconnect switch.

3. In which industrial revolution the use of IT and Electronic systems further automated the production of industrial sector
 - a. First.
 - b. Second.
 - c. Third.
 - d. Fourth.

4. Industrial safety is primarily a management activity which is concerned with _____, Controlling, Eliminating hazards from the industries.
 - a, Reducing
 - b, Increasing
 - c, suppressing

The _____ is defined as the device which convert the one form of energy into another form of the energy.

- a. Sensor
- b. Transducer
- c. Resistor
- c. Capacitor



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Question No 2

10

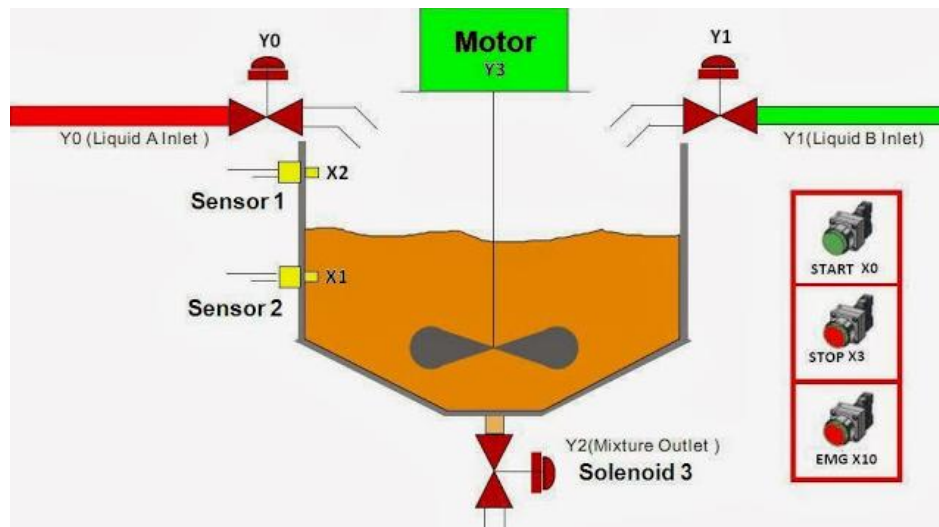
A. Draw digital logic circuit and ladder diagram that is equivalent to the following Boolean function that will initiate a motor “M” to start? (10) **CLO-2**

$$M = B' C D' + B' C E + B' C F'$$

Question No 3

10

A. Describe and draw ladder diagram for the below given process having a container infused with liquids A and B in order when START is pressed. When it reaches the set level, mix the two liquids evenly then open the valve to let out the mixture? **CLO-2**



.Good Luck.
