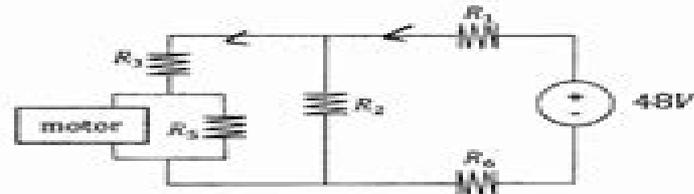


1. It is your first day on the job and you are asked to determine what is wrong with the circuit that is powering a motor that is malfunctioning on a piece of manufacturing equipment; millions of dollars are at stake. You use the circuit schematic diagram that is shown below to trouble shoot the circuit with a voltmeter and find that there is zero voltage measured across the motor. Which of the following component failures is the most probable cause of the problem?

- a.  $R_6$  is shorted
- b.  $R_2$  is shorted
- c.  $R_5$  is opened
- d.  $R_2$  is opened
- e.  $R_2$  is shorted



2. Determine the resistance of a lamp which draws 120 mA of current when connected to a 12.6 V battery?

- a.  $63\Omega$
- b.  $9.5\Omega$
- c.  $9.5m\Omega$
- d.  $150\Omega$
- e.  $105\Omega$

$.12 A$

$V = IR \quad R = \frac{V}{I} = \frac{12.6}{.12}$   
 $R = 105 \Omega$

3. Determine the current I.



- a.  $1.4 A$
- b.  $2.1 A$
- c.  $3.4 A$
- d.  $4.2 A$
- e.  $5.5 A$

$\frac{5.7}{12} = 2.92$

$16 - I_2 = 0$   
 $I_2 = 16 A$

$16 - .83I = 0$   
 $I = 19.277$   
 $19.271$

$I = 35.2505$

4. Determine the current I.

$16 - 20I = 0$   
 $I = .8$



$R_p = \frac{1}{\frac{1}{4} + \frac{1}{5} + \frac{1}{8}} = 1.73$

$5.86 \cdot \left( \frac{32}{37} \right)$

$16 - 2.73I_1 = 0$   
 $I_1 = 5.86081$

$16 - 1(1.73) - 5(I) = 0$   
 $I = 2.854$

# Competitive Exam Questions Answers Electrical Engineering

**Siddappa N.Byrareddy**



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