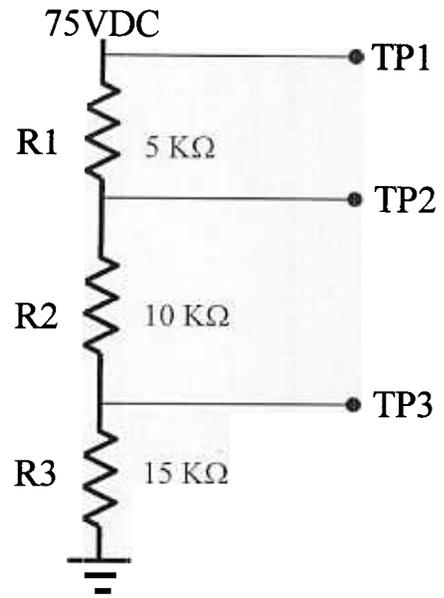


| Normal | Reading ***** |
|--------|---------------|
| EA | |
| RT | |
| IT | |
| ER1 | |
| ER2 | |
| ER3 | |
| ETP1 | |
| ETP2 | |
| ETP3 | |
| | |
| | |
| | |
| | |



1) IT Decreases to ZERO. What is the malfunction?

- a) R1 Short
- b) R3 Short
- c) R3 Open
- d) None of the above

2) It increases to 3 mA. What is the malfunction?

- a) R1 short
- b) R3 Short
- c) R3 Open
- d) All the above

3) If R2 were to open how much current would flow through R3?

- a) 2.75 mA
- b) 3 mA
- c) 4 mA
- d) 0 A

4) The voltage drop across R1 and R2 is 0 V. What is the probable malfunction

- a) R1 short
- b) R2 Short
- c) R2 open
- d) R3 open

5) R3 shorts, what happens to circuit resistance and current?

- a) Stays the same
- b) $R \uparrow$, $I \downarrow$
- c) $R \downarrow$, $I \downarrow$
- d) $R \downarrow$, $I \uparrow$

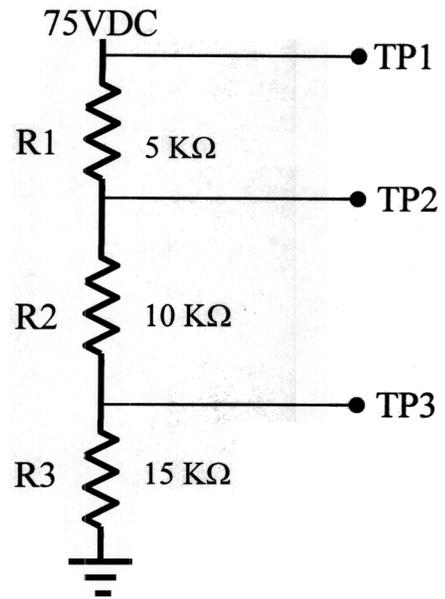
6) R1 shorts, what is current and voltage drops across: R1, R2, and R3?

- a) 8 mA, \uparrow , \downarrow , \downarrow
- b) 3 mA, 0V, 30V, 45V
- c) 0 A, 75V, 0V, 0V
- d) None of the above

7) TP1 = 75V, TP2 = 75V, TP3 = 75V What is the malfunction

- a) All resistors are shorted
- b) All resistors are open
- c) R1 short
- d) R3 Open

| Normal | Reading ***** |
|--------|---------------|
| EA | 75 V |
| RT | 30K Ω |
| IT | 2.5 mA |
| ER1 | 12.5 V |
| ER2 | 25 V |
| ER3 | 37.5 |
| ETP1 | 70 V |
| ETP2 | 62.5 |
| ETP3 | 25 V |
| | |
| | |
| | |
| | |



1) IT Decreases to ZERO. What is the malfunction?

- a) R1 Short
- b) R3 Short
- c) **R3 Open**
- d) None of the above

2) It increases to 3 mA. What is the malfunction?

- a) **R1 short**
- b) R3 Short
- c) R3 Open
- d) All the above

3) If R2 were to open how much current would flow through R3?

- a) 2.75 mA
- b) 3 mA
- c) 4 mA
- d) **0A**

4) The voltage drop across R1 and R2 is 0 V. What is the probable malfunction

- a) R1 short
- b) R2 Short
- c) R2 open
- d) **R3 open**

5) R3 shorts, what happens to circuit resistance and current?

- a) Stays the same
- b) $R_T \uparrow, I \downarrow$
- c) **$R_T \downarrow, I \downarrow$**
- d) $R_T \downarrow, I \uparrow$

6) R1 shorts, what is current and voltage drops across: R1, R2, and R3?

- a) 8 mA, $\uparrow, \downarrow, \downarrow$
- b) **3 mA, 0V, 30V, 45V**
- c) 0 A, 75V, 0V, 0V
- d) None of the above

7) TP1 = 75V, TP2 = 75V, TP3 = 75V What is the malfunction

- a) All resistors are shorted
- b) All resistors are open
- c) R1 short
- d) **R3 Open**