

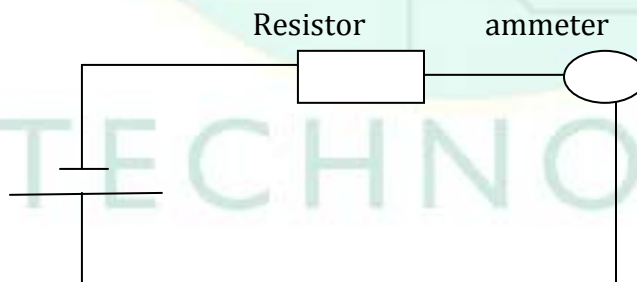
ELT-111 CIRCUIT ANALYSIS I
Series Circuits Sample Test
ANSWER KEY

1. $R_2 = 84 \text{ ohms}$
2. $R_t = 144 \text{ ohms}$
3. $V_2 = 7V$
4. $V_t = 12V$
5. $I_1 = 83.33\text{mA}$
6. $I_2 = 83.33\text{mA}$
7. $I_t = 83.33\text{mA}$
8. $P_1 = 416.65\text{mW}$
9. $P_2 = 583.31\text{mW}$
10. $P_t = 999.96\text{mW}$

11. $P/S = 20 \text{ volts}$
12. $R_3 = 40 \text{ ohms}$
13. $V_1 = 4 V$
14. $V_3 = 8 V$
15. $P_t = 4 W$

16. F
17. F
18. T
19. a
20. The applied voltage
21. B and C
22. Movement of electrons

- 23.



24.

