

**Problem 67:**

An 8-ohm resistor is connected in series with a parallel combination of two resistors,  $R$  and 24 ohms. Determine  $R$  if the power consumed by the parallel connected resistors is equal to the power consumed by the 8-ohm resistor.

- A. 10 ohms
- B. 16 ohms
- C. 12 ohms
- D. 20 ohms

**Problem 68:**

A multi-tap resistor  $R$  is connected across a 220-V supply. A voltmeter whose internal resistance is 15-k $\Omega$  is connected across the center tap and one end of the supply terminals. If the voltmeter registers 100 V, what is the value of resistor  $R$ .

- A. 5.5 k $\Omega$
- B. 5.0 k $\Omega$
- C. 6.0 k $\Omega$
- D. 6.5 k $\Omega$

**Problem 69:**

A potential divider of resistance of 50 ohms is connected across a 100 V DC source. A load resistance of 10 ohms is connected across a tap in the potential divider and the negative terminal of the source. If a current of 4 A flows towards the load, what is the current supplied by the source?

- A. 5.32 A
- B. 5.05 A
- C. 5.21 A
- D. 5.48 A

**Problem 70:**

Two resistors A and B are connected in series across a 220 V DC source. When a voltmeter with an internal resistance of 10 k $\Omega$  ohms, is connected across resistor A, the instrument reads 100 V and when connected across resistor B, it reads 80 volts. Find the resistance of resistor A.

- A. 4 k $\Omega$
- B. 3 k $\Omega$
- C. 5 k $\Omega$
- D. 6 k $\Omega$

**Problem 71: EE Board April 1992**

An electric kettle was marked 500 W, 230 V found to take 15 minutes to bring 1 kilogram of water at 15 °C to boiling point. Determine the heat efficiency of the kettle.

- A. 79.1%
- B. 75.3%

# Basic Electrical Engineering Solved Paper

**Robert R. Redfield**



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