

Name: _____

Electricity Practice Test

Section A. Multiple Choice Questions (10 marks)

Directions: Place the letter of the answer that is most correct on the line provided.

1. A lantern flashlight consumes a current of 300.0 mA for 25.0 min from a 6.00-V battery. Determine the amount of energy it consumes. Ⓐ

(a) 1.33×10^{-2} J
 (b) 4.50×10^4 J
 (c) 2.70×10^3 J
 (d) 7.50×10^1 J

Answer: _____

2. A student connects four identical light bulbs in series to a 9.00-V battery. Each light bulb draws a current of 0.225 A for 150.0 s. What is the resistance of one bulb? Ⓑ

(a) 2.50 Ω
 (b) 10.0 Ω
 (c) 40.0 Ω
 (d) 20.0 Ω

Answer: _____

3. A parallel circuit consists of three resistors: $R_1 = 300 \Omega$, $R_2 = 500 \Omega$, and $R_3 = 900 \Omega$. The total current of the circuit is 354.4 mA. What is the potential difference of the power supply? Ⓒ

(a) 55.0 V
 (b) 2.28 V
 (c) 8.09×10^{-1} V
 (d) 4.38×10^2 V

Answer: _____

4. Determine the potential difference of the power supply shown in the following circuit diagram. Ⓐ

(a) 394 V
 (b) 32.6 V
 (c) 70.6 V
 (d) 136 V



Answer: _____

5. Determine the power consumption of R_2 in the following circuit diagram. Ⓐ

(a) 12.0 W
 (b) 6.00 W
 (c) 30.0 W
 (d) 54.0 W



Answer: _____

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