Line Master

E-22

Number

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.

- 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) $1.33 \times 10^{-2} \text{ J}$
 - (b) $4.50 \times 10^4 \text{ J}$
 - (c) $2.70 \times 10^3 \text{ J}$
 - (d) 7.50 × 10¹ J

Answer: ____

- 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:

- A parallel circuit consists of three resistors: R₁= 300 Ω, R₂ = 500 Ω, and R₃ = 900 Ω. 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 × 10² 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



Answert _____

- Determine the power consumption of R₂ in the following circuit diagram.
 - (a) 12.0 W
 - (b) 6.00 W
 - (c) 30.0 W
 - (d) 54.0 W

ΔV _r = 30.0 V =	(3) A ₁ = (3) A ₂ = 150.0 Ω

Answer:

(ArtiArtPlus Limited)

continued >-

Basic Electricity Practice Test

American Council on Education

Basic Electricity Practice Test:

The book delves into Basic Electricity Practice Test. Basic Electricity Practice Test is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Basic Electricity Practice Test, encompassing both the fundamentals and more intricate discussions.

- 1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Basic Electricity Practice Test
 - Chapter 2: Essential Elements of Basic Electricity Practice Test
 - Chapter 3: Basic Electricity Practice Test in Everyday Life
 - Chapter 4: Basic Electricity Practice Test in Specific Contexts
 - ∘ Chapter 5: Conclusion
- 2. In chapter 1, the author will provide an overview of Basic Electricity Practice Test. The first chapter will explore what Basic Electricity Practice Test is, why Basic Electricity Practice Test is vital, and how to effectively learn about Basic Electricity Practice Test.
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- 6. In chapter 5, the author will draw a conclusion about Basic Electricity Practice Test. The final chapter will summarize the key points that have been discussed throughout the book.
 - The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Basic Electricity Practice Test.

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