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1. The statement which correctly represents Ohm's law:

1. V = IR
2. V = R/I
3. R = VI
4. I = R/V
    - Correct answer: 1. V = IR

2. A 10 ohms resistor is powered by a 5-V battery. The current flowing through the source is:

1. 10 A
2. 50 A
3. 2 A
4. 0.5 A
    - Correct answer: 4. 2 A
    - Solution: From I = V/R = 5-V/10 ohm = 0.5 A

3. If V = 50 V and I = 5 A, then R = ___:

1. 50 Ω
2. 5 Ω
3. 10 Ω
4. 2 Ω
    - Correct answer: 3. 10 Ω
    - Solution: From R = V/I = 50 V/ 5A = 10 Ω

4. If P = 50 watt and R = 2 ohms, then I = ___?

1. 50 A
2. 5 A
3. 10 A
4. 2 A
    - Correct answer: 3. 5 A
    - Solution: From I = √(P/R) = √(50 V/ 2A) = √25 A = 5 A

5. Unit of voltage is:

1. Volt
2. Watt
3. Coulomb
4. Ampere
    1. Correct answer: 1. Volt

6. Unit of current is:

1. Volt
2. Watt
3. Coulomb

4. Ampere
    1. Correct answer: 4. Ampere

7. Unit of power is:

1. Volt
2. Watt
3. Coulomb
4. Ampere
    1. Correct answer: 2. Watt

8. Unit of resistance is:

1. Volt
2. Watt
3. Ohms
4. Ampere
    - Correct answer: 3. Ohms

9. If V = 10 V and R = 15 kΩ, then I = ___?

1. 0.666 mA
2. 666 µA
3. 0.66 A
4. a & b
    - Correct answer: 4. a & b
    - Solution: Here I = V/R = 10 V / 15 kΩ = 0.666 mA = 666 µA

10. If I = 5 A and R = 10 Ω, then P = ___?

1. 50 watts
2. 250 watts
3. 350 watts
4. 500 watts
    - Correct answer: 2. 250 watt
    - Solution: Here P = I2R = (5 A)2 * 10 Ω = 250 watts