

Science 10

Chapter Test A

Teacher Notes and Answers Electrical Energy and Current

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101. A
102. A
103. A
104. B
105. B
106. B

Answers:

$$\text{Resistance} = \frac{V}{I} = \frac{120 \text{ V}}{0.25 \text{ A}} = 480 \, \Omega$$

$$\frac{1}{R_{\text{total}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \frac{1}{R_4}$$

$$\frac{1}{R_{\text{total}}} = \frac{1}{100 \, \Omega} + \frac{1}{150 \, \Omega} + \frac{1}{200 \, \Omega} + \frac{1}{300 \, \Omega}$$

$$R_{\text{total}} = 60 \, \Omega$$

107. B
108. A
109. B
110. B

Answers:

$$I = \frac{V}{R} = \frac{120 \text{ V}}{100 \, \Omega} = 1.2 \text{ A}$$

111. B
112. B
113. A
114. A

Answers:

or $100 \, \Omega$

Resistance to each wire:

$$R = \frac{\rho L}{A} = \frac{(1.68 \times 10^{-8} \, \Omega \cdot \text{m})(100 \text{ m})}{1.31 \times 10^{-6} \text{ m}^2} = 1.28 \, \Omega$$

115. B

116. Resistance increases as the cross-sectional area decreases (A & B only)

117. The conductivity of a material is great that is good conductors of electricity. The resistance is low.

118. The resistance is directly proportional to the length of the wire.

119. The thicker wire had lower resistance. This is demonstrated by comparing resistances. The graph shows that the resistance decreases as the thickness of the wire increases.

120. The resistance is directly proportional to the length of the wire.

121. Electricity is a form of energy that can be converted from one form to another.

122. Electric energy is a form of energy.

123. Electric energy is a form of energy that can be converted from one form to another.

124. $1.2 \times 10^3 \text{ W}$

$$\text{Power} = \frac{W}{t} = \frac{1200 \text{ J}}{1 \text{ s}} = 1200 \text{ W}$$

$$P = \frac{W}{t} = \frac{1200 \text{ J}}{1 \text{ s}} = 1200 \text{ W}$$

$$\left[\frac{1200 \text{ J}}{1 \text{ s}} \right] = \left[\frac{1200 \text{ W}}{1 \text{ s}} \right]$$

125. 100 W

Power

$$P = \frac{W}{t} = \frac{1200 \text{ J}}{1 \text{ s}} = 1200 \text{ W}$$

$$P = \frac{W}{t} = \frac{1200 \text{ J}}{1 \text{ s}} = 1200 \text{ W}$$

Power

$$P = \frac{W}{t}$$

Resistance to each wire:

$$R = \frac{\rho L}{A} = \frac{(1.68 \times 10^{-8} \, \Omega \cdot \text{m})(100 \text{ m})}{1.31 \times 10^{-6} \text{ m}^2} = 1.28 \, \Omega$$

126. $1.2 \times 10^3 \text{ W}$

Power

$$P = \frac{W}{t} = \frac{1200 \text{ J}}{1 \text{ s}} = 1200 \text{ W}$$

$$P = \frac{W}{t} = \frac{1200 \text{ J}}{1 \text{ s}} = 1200 \text{ W}$$

Power

$$\left[\frac{1200 \text{ J}}{1 \text{ s}} \right] = \left[\frac{1200 \text{ W}}{1 \text{ s}} \right]$$

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Siddappa N.Byrareddy



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