

F.5 Physics Test on Chapter 21 Answer

1.

(a) Resistance $R = \frac{V^2}{P}$ 1M
 $= \frac{12^2}{24}$
 $= 6 \, \Omega$ 1A

(b) Maximum equivalent resistance = $6 \, \Omega$
1A

Minimum equivalent resistance = $\left(\frac{1}{6} + \frac{1}{6}\right)^{-1} = 3 \, \Omega$
1M+1A

(c)

In circuit 1,
 maximum power = $I^2 R$ 1M
 $= 2^2 \times 6$
 $= 24 \, \text{W}$ 1A
 minimum power = $I^2 \times 6$
 $= 6 \, \text{W}$

In circuit 2,
 maximum power = $\frac{12^2}{6} = 24 \, \text{W}$
 minimum power = $\frac{0^2}{6} = 0 \, \text{W}$

1A

Circuit 2.

1A

2.

(a) 1.5 V
 It is the e.m.f. of the cell.

1A 1A

(b) slope = $\frac{0.75-1.5}{22.4 \times 10^{-3}} = -33.5$

1A

1M

The internal resistance of the cell is $33.5 \, \Omega$. 1A

It is assumed that the voltmeter draws negligible current so that the ammeter shows the true value of the current through the cell. 1A

(c)



Holt Physics Ch 21 Test B Answers

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A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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