

Unit 2

Electricity and Thermal Physics

Solutions to Assessment Questions

1	Mass is a base quantity	1	
	Charge is a derived quantity	1	
	Joule is a derived unit	1	
	Ampere is a base unit	1	
	Volt is a derived unit	1	[5]
2	Resistance	1	
	Power	1	
	Current	1	
	Voltage or Potential difference or Electromotive force	1	[4]
3	Zero or very small or negligible	1	
	Infinite or very large	1	[2]
	Correct substitution into formula or knowing $\frac{1}{4}R$	1	
	Total resistance = 1.25Ω	1	[2]
4	Since in parallel, same potential difference across each resistor	1	
	Total current $I = I_1 + I_2 + I_3$	1	
	so that $V/R = V/R_1 + V/R_2 + V/R_3$	1	[3]
	First network:		
	$R = \frac{1}{4} \times 10 \Omega = 2.5 \Omega$	1	
	Second network:		
	$R = 10 \Omega + (\frac{1}{2} \times 10 \Omega) + 10 \Omega = 25 \Omega$	1	
	Third network:		
	$R = \frac{1}{2} \times (10 \Omega + 10 \Omega) = 10 \Omega$	1	[3]
	Ammeter reading = 25 mA (as current splits equally ... both paths have same resistance)	1	
	Voltmeter $V_1 = I_{\text{branch}} R_{\text{branch}} = 0.025 \text{ A} \times 10 \Omega$	1	
	= 0.25 V	1	
	Voltmeter $V_2 = I_{\text{total}} R_{\text{total}} = 0.050 \text{ A} \times 25 \Omega$	1	
	= 1.25 V	1	[5]
5	As temperature rises, the resistance of the thermistor decreases	1	
	As resistance decreases, the current (or ammeter reading) increases	1	[2]
	At 20°C , $R = 1.4(2) \text{ k}\Omega$	1	
	$I = V/R = 6.0 \text{ V}/(1.42 \times 10^3 \Omega)$	1	
	= $4.2 \times 10^{-3} \text{ A}$	1	[3]

Nelson Thornes Physics For You Answers

T. L. Lowe, J. F. Rounce



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