Practice Question Set For GCSE

Subject: Physics

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Paper-1 Topic: GCSE Triple Science_Electricity (Low Demand Questions)

Name of the Student: Max. Marks : 18 Marks		Time : 18 Minutes
Mark Scl		Time . To williates
Q1. (a)	increased	
	decreased	1
	stayed the same	1
(b)	random error	1
(c)	$A_2 = 0.12 (A)$	1
	$A_5 = 0.36 \text{ (A)}$	1
(d)	$P = 0.12^2 \times 15$	1
	P = 0.216 (W)	1 [8]
Q2.		
(a)	(fixed) solar cells aren't always pointed (directly) at the Sun or	
	(fixed) solar cells don't track the Sun (through the sky)	1
	(fixed) solar cells don't (always) receive maximum intensity of solar radiation allow solar cells won't receive as much (solar) energy allow solar cells won't generate as much electricity	1
(b)	$Q = 3.5 \times 3600$	1
	Q = 12 600 (C)	
(c)		1

	efficiency = useful power output total power input	
(d)	$0.16 = \frac{\text{useful power output}}{7500}$	1
	useful power output = 0.16 × 7500	1
	useful power output = 1200 (W)	1
(e)	the energy becomes less useful	1
(f)	a very large area would need to be covered with solar cells	1 [1 0]