Practice Question Set For GCSE

Subject: Physics

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

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Name of the Student: Max. Marks: 20 Marks Time: 20 Minutes Mark Schemes Q1. (a) higher 1 low(er) (b) 1 hot(ter) allow warm(er) 1 (c) advantage: water heated continuously (by the Sun) 1 one disadvantage from: temperature of water is lower (for most of the time than water heated by immersion heater) water may not be hot enough allow less control over water temperature it takes longer to heat the water 1 4030000 4070000 (d) 1 0.99 an answer of 99% scores 2 marks an answer of 99 or 0.99% scores 1 mark 1 an answer of 0.99 scores 2 marks allow an answer that rounds to 0.99 for 2 marks (e) power = energy transferred / time allow P = E/t1 $5000 = \frac{4070000}{t}$ (f)

1

	$t = \frac{4070000}{5000}$	1	
	t = 814	1	
	seconds other units of time must be consistent with numerical value an answer of 814 seconds scores 4 marks an answer of 13.57 minutes scores 4 marks	1	[12]
Q2.			
(a)	 any two from: nuclear oil (natural) gas 	2	
(b)	4 (hours)	1	
(c)	a system of cables and transformers		
(d)	The power output of wind turbines is unpredictable		
(e)	1500 / 0.6	1	
	2500 (wind turbines) allow 2500 with no working shown for 2 marks	1	
(f)	Most energy resources have negative environmental effects.	1	[8]