## Practice Question Set For GCSE

**Subject : Physics** 

Paper-1 Topic: Energy (Low Demand)



	rks : 23 Marks	Time : 23 Minutes
/lark Sch	nemes	
Q1.		
(a)	LED	1
(b)	the same as	1
(c)		1
	an answer of 600 (thousand) or 600 000 scores <b>2</b> marks two correct readings from the graph scores <b>1</b> mark	
	1500 – 900	
	allow a range of 1480 to 1520 and a range of 880 to 920	1
	600 (thousand)  allow an answer in the range of 560 (thousand) to 640 (thousand) consistent with their allowed readings	
	consistent with their allowed readings	1
(d)	repeat the experiment using exactly the same method	1
(e)	power = $0.80 \times 0.020$	1
	power = 0.016 (W)	1
	an answer of 0.016 (W) scores 2 marks	1
(f)	power = $(current)^2 \times resistance$	1
(g)	temperature increases	1
(h)		_
	an answer of 3.6 (C) scores <b>2</b> marks	
	$Q = 0.020 \times 180$	1
	Q = 3.6 (C)	1
		[11]

## Q2.

(a)	to stop the metal case of the toaster becoming live if a fault occurs	1
(b)	yellow	1
	brown	1
	blue	1
(c)	$E = 850 \times 120$	1
	E = 102 000 (J)	1
	an answer of 102 000 (J) scores <b>2</b> marks	_
(d)	elastic potential	1
	kinetic	1
(e)	gravitational potential energy = mass × gravitational field strength × height	
	or	
	$E_p = m g h$	
	allow gpe	1
	allow any correct re-arrangement	
(f)	$0.049 = 0.050 \times 9.8 \times h$	1
	$h = \frac{0.049}{0.050 \times 9.8}$	
		1
	h = 0.10 (m)	1
	an answer of 0.10 (m) scores 3 marks	
		[12]