Practice Question Set For GCSE

Subject: Physics



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

Name of Max. Ma		Time : 19 Minute	
Mark Sch	neme		
Q1.			
(a)	(i)	150	1
	(ii)	transferred to the surroundings by heating reference to sound negates mark	1
	(iii)	0.75 450 / 600 gains 1 mark accept 75% for 2 marks maximum of 1 mark awarded if a unit is given	2
	(iv)	20 (s) correct answer with or without working gains 2 marks correct substitution of 600 / 30 gains 1 mark	2
(b)	(i)	to avoid bias	1
	(ii)	use less power and last longer	1
		1 LED costs £16, 40 filament bulbs cost £80	
		or	
		filament costs (5 times) more in energy consumption	1
	(iii)	any one from:	
		 availability of bulbs colour output temperature of bulb surface 	1 [10]
Q2. (a)	(i)	live	1

	(ii)	react faster	1	
	(iii)	live and neutral	1	
(b)	(i)	ammeter		
		to measure current accept to measure amps	1	
		plus any one from:		
		variable resistor (1) to vary current (1) accept variable power supply accept change or control		
		 switch (1) to stop apparatus getting hot / protect battery or to reset equipment (1) 		
		 fuse (1) to break circuit if current is too big (1) 	2	
	(ii)	any two from:		
		 use smaller mass(es) move mass closer to pivot reduce gap between coil and rocker more turns (on coil)coil / loop iron core in coil accept use smaller weight(s) 	2	[9]