Practice Question Set For GCSE

**Subject : Physics** 

Paper-1 Topic: Energy (Low Demand)



Name of Max. Ma	Time : 24 Minutes		
Mark Sch	Timo : 24 minutos		
Q1.			
(a)	kine	etic	
		accept movement	1
(b)	(i)	(i) 3 (kWh)	
		allow 1 mark for selecting the correct information	1
	(ii)	transfers more energy	
		accept transform or use for transfer	
		accept electricity for energy	
		allow higher (average) power <b>and</b> switched on for more time	2
	(iii)	any <b>one</b> from:	
		use the internet	
		• brochures	
		reading adverts	
		visiting shops	
		recommendation from friends / plumbers	1 [5]
<b>Q2.</b> (a)	(i)	grid	
( )	( )	accept any way of indicating correct answer	1
	(ii)	increases voltage accept any way of indicating correct answer	1
	(iii)	230 V	
		accept any way of indicating correct answer	1
	(iv)	reduce	

	(b)	(i)	incre	eases the temperature  accept make it hotter / heat goes into the air  accept convection currents  accept sensible comment eg sound energy / it buzzes  ignore pollutes the air		
		(ii)	less	than 100%	1	
<b>^</b> 2	1					[6]
ىرى	(a)	gas			1	
	(b)	fuel	burnir	ng stations produce electricity at any time / all the time accept fuel available all the time	1	
		wind	d gene	erator can only produce when the wind is strong enough accept it's not always windy	1	
	(c)			ournt <b>or</b> no fuel is used <b>or</b> uses only energy from wind <b>or</b> mit harmful gases / soot / smoke  do <b>not</b> accept wind is natural / environmentally friendly / renewable answer must be in terms of wind, <b>not</b> negative of fuel burning specific examples of gases CO <sub>2</sub> , SO <sub>2</sub> , acid rain and greenhouse gases can be accepted ozone negates credit	1	[4]
Q4	<b>l.</b> (a)	(i)	7pm	accept 19.00 / 1900	1	
		(ii)	8pm	accept 20.00 / 2000	1	
			temp	perature drops more slowly  accept heat for temperature accept line is less steep	1	
	(b)	insu	lator		1	
			duction		1	
		conv	ection	1 <sup></sup>		

accept any way of indicating correct answer

1

		* answers can be either way around	1
(c)	(i)	4 (years)	1
	(ii)	it is the cheapest / cheaper / cheap  do not accept answers in terms of heat rising or DIY	1
		has the shortest / shorter payback time do not accept short payback time	1