Practice Question Set For GCSE

Subject: Physics

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

	Name of the Student: Max. Marks : 17 Marks				
Mark Scl	Time : 17 Minute				
Q1.					
(a)	(i)	720 allow 1 mark for correct substitution, ie 72 × 10 provided no subsequent step shown	2		
	(ii)	720 or their (a)(i)	1		
(b)	(i)	gravitational potential allow gravitational allow potential	1		
	(ii)	432 allow 1 mark for correct substitution, ie subsequent step shown $\frac{21600}{50}$ provided no watt / W	2 1		
Q2.					
(a)	kin	etic	1		
(b)	(i)	generates a lot more energy / electricity / power need fewer conventional large-scale hydroelectric power stations is neutral			
		or			
		can supply (energy / electricity / power) to more homes	1		
	(ii)	Large areas of land are flooded.	1		
(c)	(i)	National Grid			

(ii) less energy / heat loss (from the cables)

accept wasted for loss

accept answers in terms of fewer transformers needed

do not accept less electricity lost / wasted

do not accept no energy lost

1

(d) any **one** from:

- fewer rivers (suitable for generators)
- less mountainous (so rivers fall smaller distances)

accept answers in terms of difficulty linking villages and towns to grid (in Nepal)

accept answers in terms of more isolated communities

accept answers in terms of UK having more resources for large-scale

power stations

[6]

Q3.

(a) (i) solar and wind

both required for mark either order

1

1

(ii) 37(%)

> accept their two sources in a(i) correctly added as an error carried forward (ecf)

> > 1

(b) Α

1

(c) gas is non-renewable

> do not accept they are not all renewable statements such as gas produces CO2 is neutral

[4]