Practice Question Set For GCSE

Subject: Physics

Paper-1 Topic: Electricity (Low Demand)



Name of the Student:	_
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Max. Marks: 10 Marks Time: 10 Minutes

Q1.

(a) The picture shows a new washing machine.



Complete the following sentence using **one** of the words in the box.

kinetic	light	sound
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A washing machine is designed to transform electrical energy into heat and

(b) The instruction booklet for the washing machine contains the following information.

Wash cycle	Average power during cycle	Time taken to run cycle	
нот	1.5 kW	2 hours	
COOL	1.1 kW	1½ hours	
FAST	1.0 kW	¾ hour	

(i) Use the following equation to calculate the energy transferred, in kilowatt-hours, to the washing machine during the HOT wash cycle. Show how you work out your answer.

energy transferred = power x time

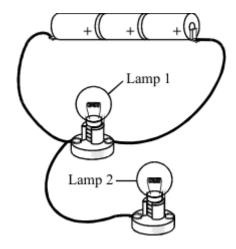
(1)

	Energy transferred = kWh
	hy does it cost more to use the washing machine on the HOT cycle than on the COOL r FAST cycle?
	Before buying a washing machine, a householder researched several makes to find out hich washing machine was the most energy efficient.
W	rite down one way that he could have done this research.

(1) (Total 5 marks)

Q2.

The drawing shows three identical cells and two identical lamps joined in a circuit.



(a) Use the correct symbols to draw a circuit diagram for this circuit.

(b)	Each of the cells provides a potential difference (voltage) of 1.5 volts. What is the total potential difference (voltage) provided by all three cells?			
			volts	(1)
(c)	Complete this sentence by crossing	out the two lir	nes in the box that are wrong.	
	The current through lamp 2 will be	smaller than the same as bigger than	the current through lamp 1.	
				(1)