Practice Question Set For GCSE

Subject: Physics

Paper-2 Topic: 10_Electricity



Name of the Student:______

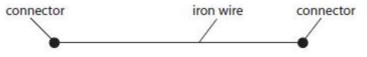
Max. Marks: 18 Marks

Time: 18

Time: 18 Minutes

Q1.

Figure 20 shows some of the apparatus that students use to determine the resistance of a piece of iron wire.



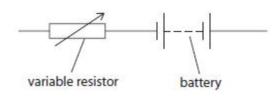


Figure 20

Add connecting wires, a voltmeter and an ammeter to complete the circuit in Figure 20 so that the students can determine the resistance of the piece of iron wire.

(2)

(Total for question = 2 marks)

This question is about electrical circuits.

Draw **one** straight line from each circuit symbol to its description.

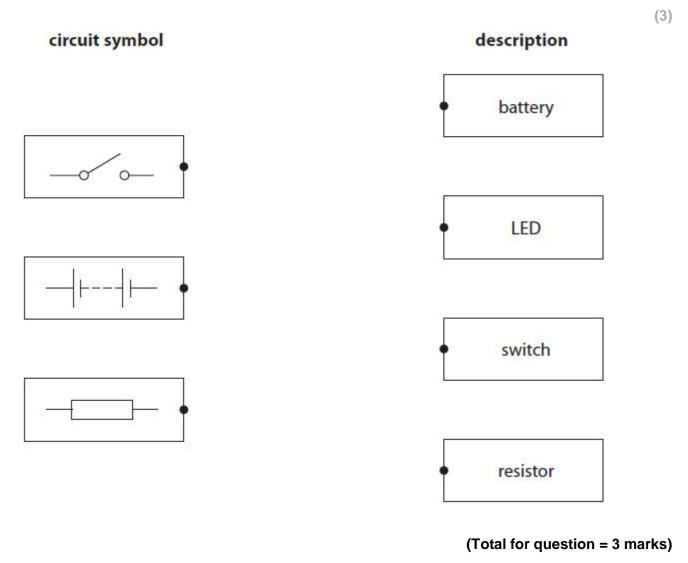


Figure 3 shows the parts in an electrical circuit.

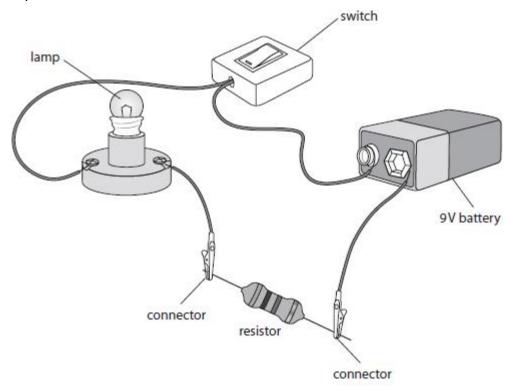


Figure 3

Draw the circuit diagram of this electrical circuit in the space provided.

The battery symbol and some of the connecting wires have been drawn for you.

(Total for question = 4 marks)

Figure 10 shows a circuit used to light a lamp.

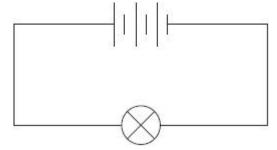


	Figure 10	
(i)	State two things you could do to the circuit to make the lamp dimmer.	
		(2)
	The energy transferred by the lamp in 20 s is 18 J.	
	Calculate the power of the lamp. State the unit.	
		(4)
	power of the lamp =	
	φοννεί οι the lamp =	
(iii)	The potential difference across the lamp is 4.2 V.	
	The current in the lamp is then 0.19 A.	
	Calculate the resistance of the lamp.	(3)
	resistance of the lamp =	Ω
	(Total for question = 9 ma	arke\
	(Total for question = 9 ma	ai KS)