Practice Question Set For GCSE

Subject: Physics



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

/lax. Mar	'ks : 2	22 Marks	Time : 22 Minutes
Q1. (a)	A re	sistor is a component that is used in an electric circuit.	
		R	
	(i)	Describe how a student would use the circuit to take the readings ne determine the resistance of resistor R .	cessary to

								_
	an experimer e calculated							
Wh	nat is the volt	meter reac	ding?					_
				V	oltmeter	reading = _		
The	e student tok	d his teach	er that the	resistance	of resist	or R was 10	6 Ω.	
	e teacher expresistance.	olained tha	t the resist	ors used c	ould only	have one o	of the follow	wing value
	10 Ω	12 Ω	15 Ω	18 Ω	22 Ω			
Su	10 Ω ggest which					n his exper	iment.	
		of these re	sistors the			n his exper	iment.	
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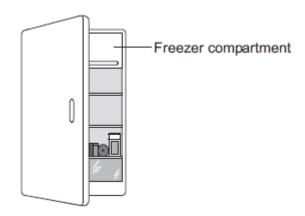
(b)

_		 	
_			
(3)			
(3)			
(Total 15 marks)	•		
(Total To marks)	,		

Q2.

(a) The figure below shows a fridge with a freezer compartment.

The temperature of the air inside the freezer compartment is -5 °C.



Use the correct answer from the box to complete each sentence.

Each answer may be used once, more than once or not at all.

decreased unchanged increased

When the air near the freezer compartment is cooled, the energy of the

air particles is ______.

The spaces between the air particles are ______.

The density of the air is ______.

(3)

(b) The table below shows some information about three fridges, ${\bf A},\,{\bf B}$ and ${\bf C}.$

The efficiency of each fridge is the same.

Fridge	Volume in litres	Energy used in one year in kWh
Α	232	292
В	382	409
С	622	524

(i)	Which fridge, A. B or C. would cost the least to use for 1 year?	

Give one reason for your answer.	
	_
	_
A householder looks at the data in the table above.	
What should she conclude about the pattern linking the volume of the fridge a energy it uses in one year?	and the
	_
The householder could not be certain that her conclusion is correct for all frid	ges.
Suggest one reason why not.	
	_
	(Total 7 m