Practice Question Set For GCSE

**Subject: Physics** 

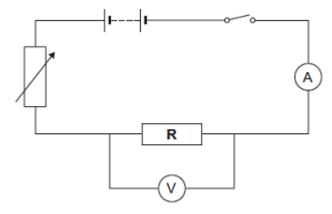
Paper-1 Topic: Electricity (Low Demand)



Name of the Student:	
Max. Marks : 22 Marks	Time : 22 Minutes

Q1.

(a) A resistor is a component that is used in an electric circuit.




W	hat is the			e resistan	ce of resis			vas 0.75 16 Ω.		
					,			eading =		
Th	e studen	t told	his teach	er that the	e resistand	ce of	resisto	or <b>R</b> was	16 Ω.	
	ne teache resistand		ained tha	t the resis	tors used	coul	d only h	nave one	of the fo	ollowing va
	10 9	Ω	12 Ω	15 Ω	18 Ω	:	22 Ω			
Sı	uggest wł	nich of	f these re	sistors the	e student	had	used ir	n his expe	eriment.	
Gi	ve a reas	on fo	r your ans	swer.						
ysit	gram sho	ws a f	fuse.							
			6		5A					

(b)

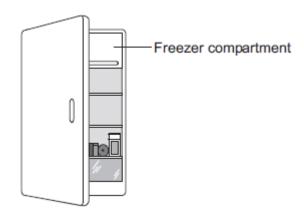
(ii) Explain why the student should open the switch after each reading.

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_			
(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
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air particles is \_\_\_\_\_\_.

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

The spaces between the air particles are \_\_\_\_\_\_ .

The density of the air is \_\_\_\_\_\_.

(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
A	232	292
В	382	409
С	622	524

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

(3)

Give <b>one</b> 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 fridg	ges.
Suggest <b>one</b> reason why not.	
	_
	_ (Total 7 m