Practice Question Set For GCSE

Subject: Physics

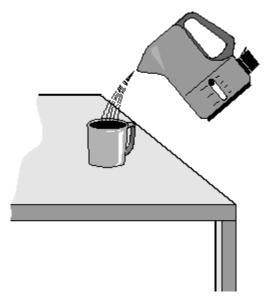
Paper-1 Topic: Particle Model Of Matter (Low Demand)



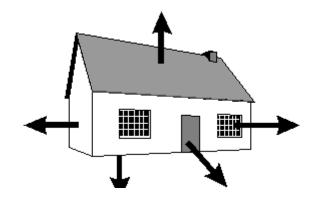
Name of the Student:	Time : 24 Minute
Q1.	
Many people use a sleeping bag when they sleep in a tent. Sleeping bags, desig person warm, have a fibre filling.	ned to keep a
Fibre filling	
(i) Complete the sentence by choosing the correct words from the box.	
conduction convection radiation	
The fibre is designed to reduce heat transfer by ar	nd
(ii) Explain why the fibre is good at reducing heat loss from a person sleeping	ı in the bag.
	
	 (Total 3 marks)

Q2.

(a) The diagram shows hot water being poured into a mug.



	air	mug	tab	le	water			
	Heat ener	gy is being tra	ansferred fro	m the			to	
	the			·				
(ii)	When will	this transfer	of heat ener	gy stop?				
In t	ne box are t	he names of	four types of	fuel used t	o heat home	es.		
	coal	gas	oil	wood				
Whi	ch one of th	ese types of	fuel is renew	able?	•			



(i)	Complete the sentences by choosing the correct words from the box. Each word may be
	used once or not at all.

		conduction conductor electric evaporation insulator	
		The amount of heat energy lost through the windows by	
		can be reduced by using thick	
		curtains. The curtains trap a layer of air and air is a good	
		·	(2
	(ii)	Write down one other way of reducing heat loss from a house.	
			(Total 6 marks
Peo	ple do	a number of things to reduce the energy loss from their homes.	
(a)	Des	cribe one thing they may do to cut down the energy loss through:	
	(i)	the roof;	
	(ii)	the outside walls;	,
	/:::\	the class in the windows	(1
	(iii)	the glass in the windows;	
			(1
	(iv)	gaps around the front and back doors.	

Q3.

(b)	A house is more difficult to keep warm in cold weather. What other type of weather makes it difficult to keep a house warm?
	(1) (Total 5 marks)
Q4. The	drawing shows a section of a vacuum flask.
(a)	Hollow plastic stopper Hot liquid Double-walled glass vessel Silvered surfaces Outer case Vacuum between the silvered surfaces Plastic support Heat is slowly "lost" from the hot liquid in the closed flask. It may be transferred by:
	conduction convention evaporation radiation
	Choose from the words above to complete the following sentences. You may use a word once, more than once or not at all.
	(i) The vacuum between the glass walls reduces

(iv) Heat is transferred by the air molecules, away from the vacuum flask, by

_____ and _____

The stopper in the opening of the flask reduces

(iii)

(1)

(2)

/)	The plastic of the plastic stopper is preferred to metal because it cuts down
⁄larl	k X on the diagram of the vacuum flask where the liquid in the flask is hottest.
Expl	ain, in terms of particles, how heat is conducted through a glass wall of the vacuur