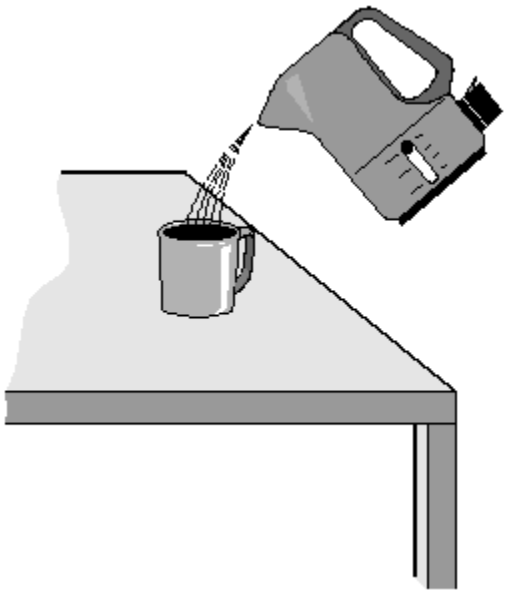
Practice Question Set For GCSE
Subject : Physics
Paper-1 Topic: GCSE Triple Science_Particle Model Of Matter (Low Demand Questions)

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Name of the Student:_____
Max. Marks : 21 Marks **Time : 21 Minutes**

Q1.

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



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

air	mug	table	water

Heat energy is being transferred from the _____ to

the _____ .

(1)

(ii) When will this transfer of heat energy stop?

_____

_____

(1)

(b) In the box are the names of four types of fuel used to heat homes.

coal	gas	oil	wood

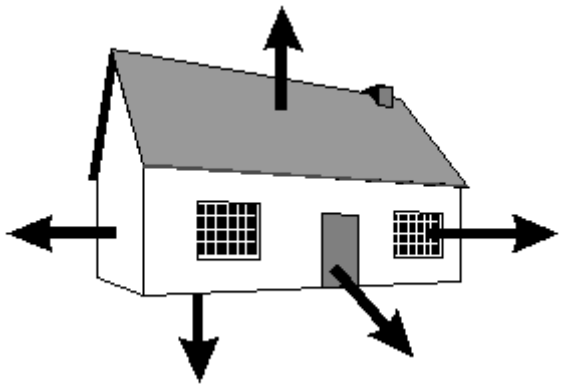
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Which **one** of these types of fuel is renewable?

_____

(1)

(c) The diagram shows where heat energy is lost from a house.



(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.

_____

_____

(1)

(Total 6 marks)

Q2.

People do a number of things to reduce the energy loss from their homes.

(a) Describe **one** thing they may do to cut down the energy loss through:

(i) the roof;

_____

(1)

(ii) the outside walls;

_____

(1)

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(iii) the glass in the windows;

_____

(1)

(iv) gaps around the front and back doors.

_____

(1)

(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?

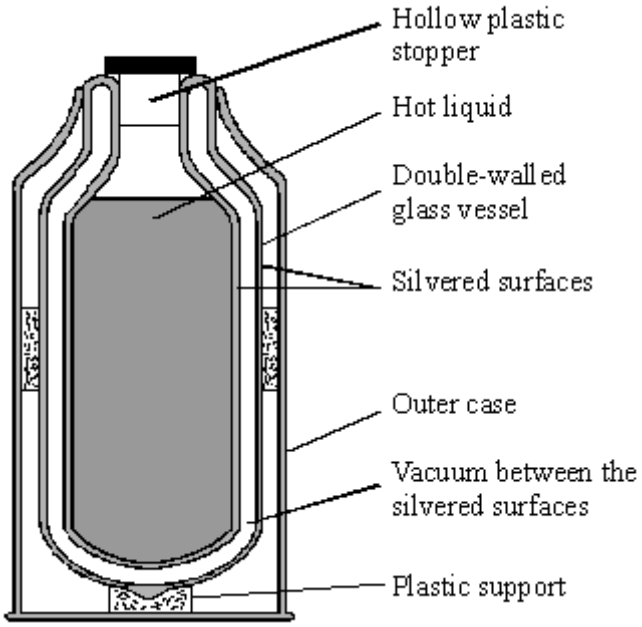
_____

(1)

(Total 5 marks)

Q3.

The drawing shows a section of a vacuum flask.



(a) 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

_____ and _____

(2)

(ii) The silvered surfaces of the glass walls reduce

_____

(1)

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(iii) The stopper in the opening of the flask reduces

_____ and _____

(2)

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

_____

(1)

(v) The plastic of the plastic stopper is preferred to metal because it cuts down

_____

(1)

(b) Mark **X** on the diagram of the vacuum flask where the liquid in the flask is hottest.

(1)

(c) Explain, in terms of particles, how heat is conducted through a glass wall of the vacuum flask.

_____

_____

_____

(2)

(Total 10 marks)

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