Thermal Properties & Temperature

Question Paper

Course	CIE IGCSE Physics
Section	2. Thermal Physics
Topic	Thermal Properties & Temperature
Difficulty	Easy

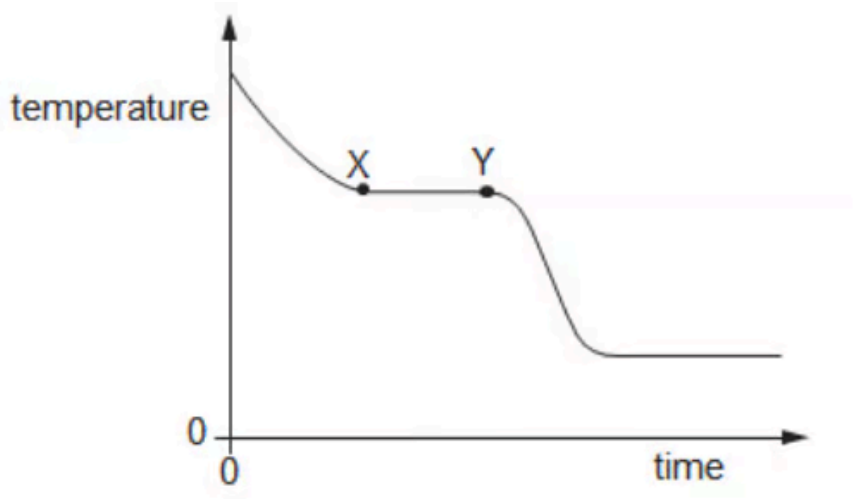
Time Allowed 10

Score /6

Percentage /100

Question 1

A substance is cooled. The graph below shows how its temperature changes over time.



What is happening in the portion of the graph labelled XY?

A. The gas is cooling.

B. The liquid is freezing.

C. The gas is condensing.

D. The liquid is cooling.

[1 mark]

Question 2

What are the upper and lower fixed points on a Celsius scale thermometer?

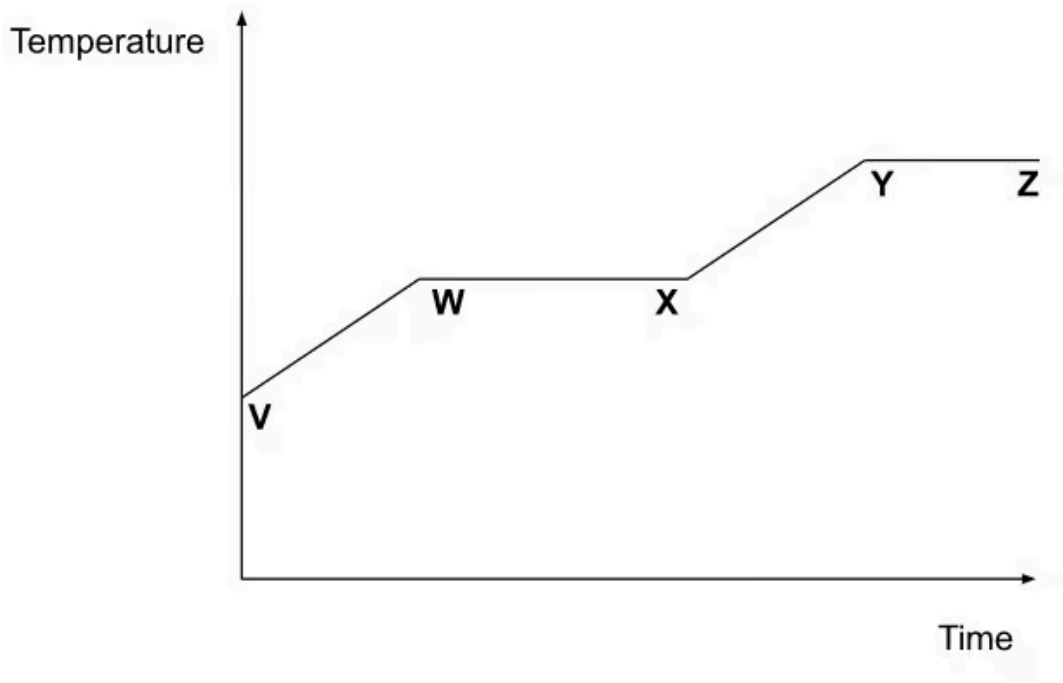
	Upper	Lower
A	The boiling point of saturated salt solution.	The freezing point of salt-water
B	The normal temperature of the human body	The freezing point of salt-water
C	The boiling point of pure water	The freezing point of pure water
D	The boiling point of pure water	Absolute zero

[1 mark]

Question 3

A substance, which is initially in its solid form, is heated at a constant rate.

The graph shows how its temperature changes with time.



Between which points is the substance partly a liquid and partly a gas?

A. V and W

B. W and X

C. X and Y

D. Y and Z

[1 mark]

Question 4

Which statement best describes a metal experiencing thermal expansion?

A. The size of the metal atoms increases

B. The space between the metal atoms increases

C. The metal atoms change state

D. The metal atoms gain enough energy to overcome the intermolecular forces of attraction holding them in place

[1 mark]

Question 5

Extended

A rise in temperature of a substance increases its

A. gravitational potential energy

B. specific heat capacity

C. mass

D. internal energy

[1 mark]

Question 6

Below are four statements about evaporation. One of them is correct.

Which statement is correct?

A. Evaporation cannot occur if a liquid's temperature is too low.

B. Evaporation happens equally, in all directions, from all parts of a liquid.

C. Evaporation cannot occur if a liquid is very dense.

D. Evaporation causes the temperature of the evaporating liquid to decrease.

[1 mark]