

Kinetic Model of Matter – 2022 June O Level 5054**1. June/2022/Paper_11/No.7**

The initial pressure of a volume V_1 of a fixed mass of gas is p_1 . The gas expands at a constant temperature until it has volume V_2 and pressure p_2 .

Which statement about the pressure and volume of the gas is **not** correct?

- A Pressure is measured in N/m^3 .
- B Pressure multiplied by volume is a constant.
- C Pressure is directly proportional to $\frac{1}{\text{volume}}$.
- D The ratio of V_1 to V_2 is equal to the ratio of p_2 to p_1 .

2. June/2022/Paper_11/No.18

Which row describes the arrangement of particles and the forces between particles in a solid?

	arrangement of particles	forces between particles
A	regular	strong
B	regular	weak
C	irregular	strong
D	irregular	weak

3. June/2022/Paper_12/No.21

Which list shows the states of matter in order of expansion from smallest to greatest for the same temperature rise?

- A gas \rightarrow liquid \rightarrow solid
- B liquid \rightarrow solid \rightarrow gas
- C solid \rightarrow gas \rightarrow liquid
- D solid \rightarrow liquid \rightarrow gas

4. [June/2022/Paper_12/No.22](#)

Which row describes the boiling and the evaporation of a liquid?

	boiling	evaporation
A	bubbles form throughout the liquid	only occurs at one temperature
B	bubbles form throughout the liquid	produces cooling
C	occurs at any temperature	only occurs at one temperature
D	occurs at any temperature	produces cooling

5. [June/2022/Paper_12/No.23](#)

A hairdryer is used to blow air across the surface of water in a beaker so that the water evaporates.

What increases the rate of evaporation of the water?

- A** decreasing the speed of the air from the hairdryer
- B** decreasing the mass of the water in the beaker
- C** increasing the surface area of the water by using a wider beaker
- D** increasing the volume of the water in the beaker