

**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  $\text{N/m}^3$ .
- 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**

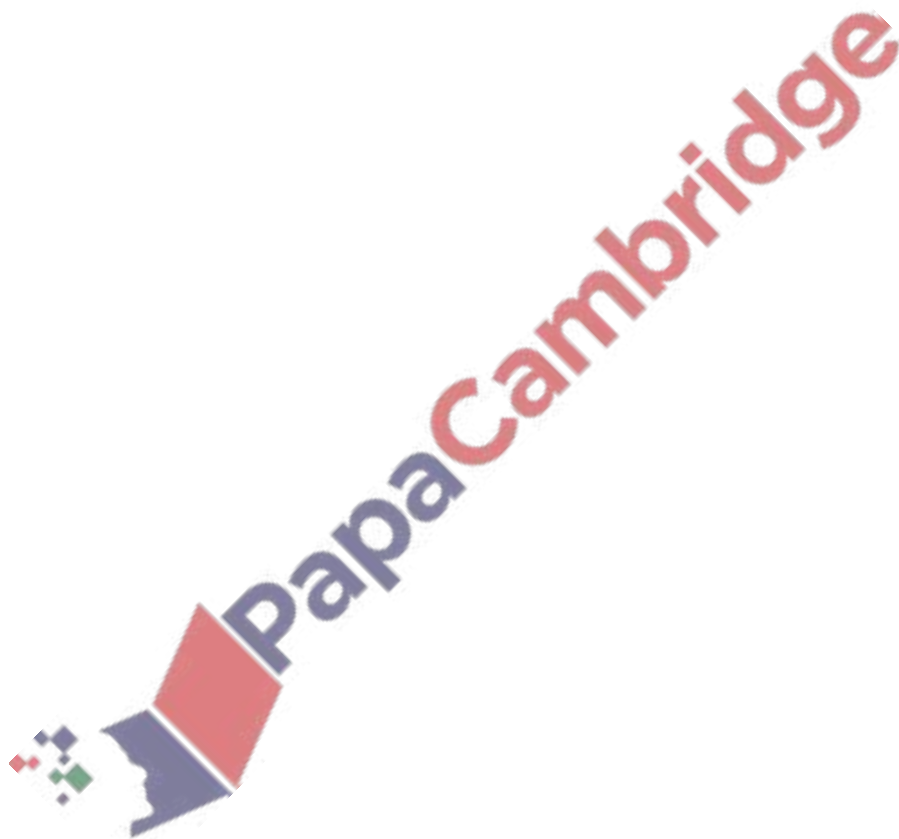
Which list shows the states of matter in order of expansion from smallest to greatest for the same temperature rise?

- 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
<b>A</b>	bubbles form throughout the liquid	only occurs at one temperature
<b>B</b>	bubbles form throughout the liquid	produces cooling
<b>C</b>	occurs at any temperature	only occurs at one temperature
<b>D</b>	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