

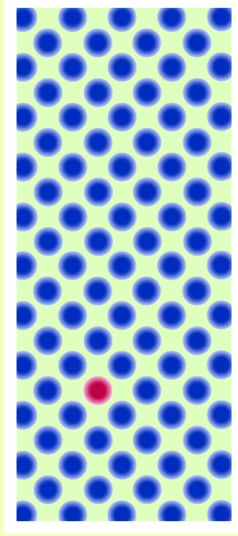
The figure on the left represents some of the molecules in one layer of a small sample of a solid. One of the molecules is marked out. Imagine that the solid is gently heated till it melts, and then after a few minutes allowed to cool again until it freezes (solidifies).

The three options below (A, B, and C) suggest how the sample might be represented after it has become a solid again.

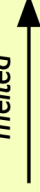
Which of the options are possible?

If more than one option is possible, which is the most likely (or are they equally likely?) Give reasons for your answers.

A

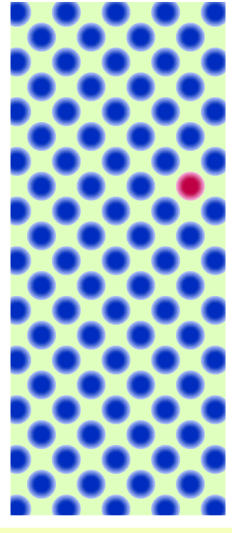


melted

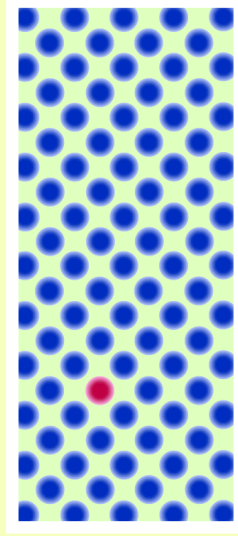


liquid state

frozen



B

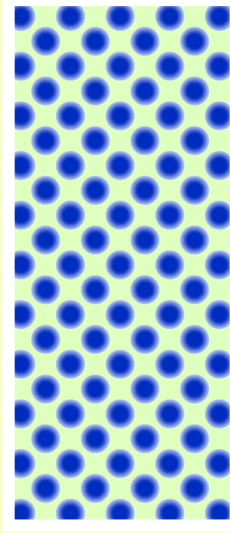


melted

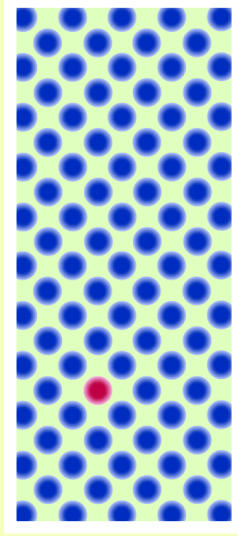


liquid state

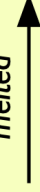
frozen



C



melted



liquid state

frozen

