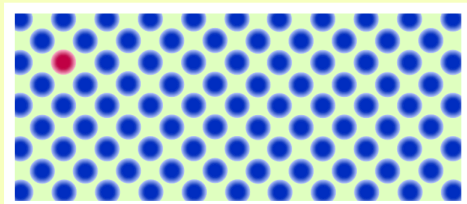
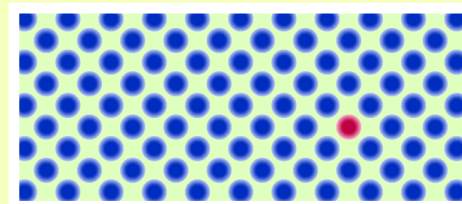


The figure on the left represents some of the molecules in one layer of a small sample of a solid. One of the molecules is marked out. Imagine that the solid is gently heated till it melts, and then after a few minutes allowed to cool again until it freezes (solidifies). The four options below (A, B,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

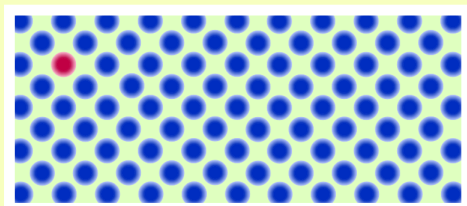
A



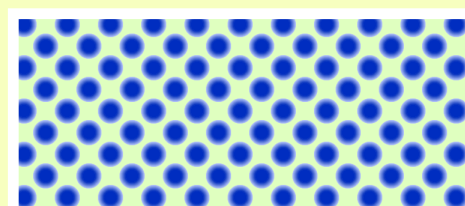
melted → liquid state → *frozen*



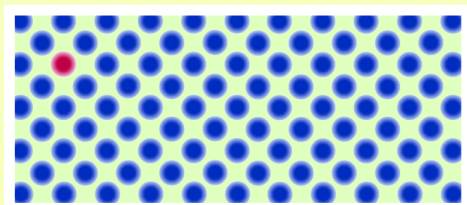
B



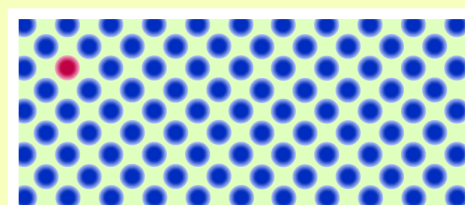
melted → liquid state → *frozen*



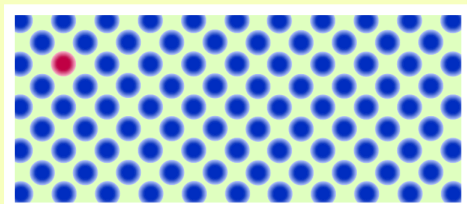
C



melted → liquid state → *frozen*



D



melted → liquid state → *frozen*

