

HOTS (Higher Order Thinking Skills)

Q.1. Will the tiny air bubbles seen before the water actually boils, also appear if we do this activity by reheating boiled water kept in an airtight bottle?"

Ans. No. The bubbles are because of the air present in water. In an airtight bottle, no air is present.

Q.2. Why do you think, the policeman in the figure below is wearing a mask?



Ans. The exhaust of automobiles releases harmful gases which can affect the respiratory system drastically. Therefore, the policeman is wearing a mask to reduce the amount of pollutant intake.

Q.3. Why should you not sleep under the trees during the night?

Ans. During night, trees release carbon dioxide and excess of carbon dioxide can cause suffocation.

Q.4. On a Sunday morning Paheli's friend visited her home. She wanted to see some flowering plants in the nearby garden. Both of them went to the garden. While returning from the garden they also observed some flowering plants on the roadside. But to their surprise they found that the leaves and flowers of these roadside plants were comparatively very dull. Can you help them to know why?

[NCERT Exemplar]

Ans. The roadside plants probably had some dust and soot deposited on them and thus appeared dull.