

Homework

② Q. Give reason.

① Freezing of water to ice and evaporation of water are physical change.

ans ⇒ Physical changes are those which are reversible.

Ice can be changed to water (melting) and back to ice (freezing) by temperature and pressure changes. Similarly water vapour can be changed to water by condensation. So they are physical changes.

② Burning of a candle is a both a physical and a chemical change.

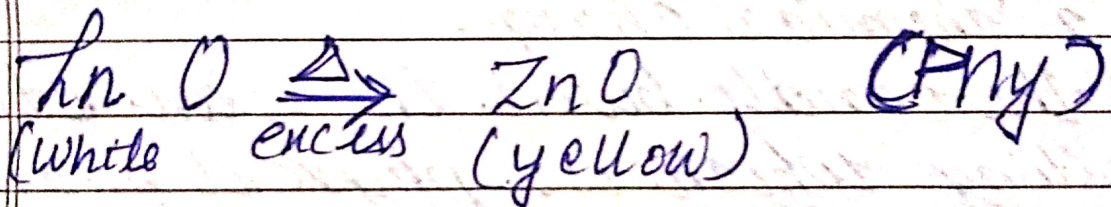
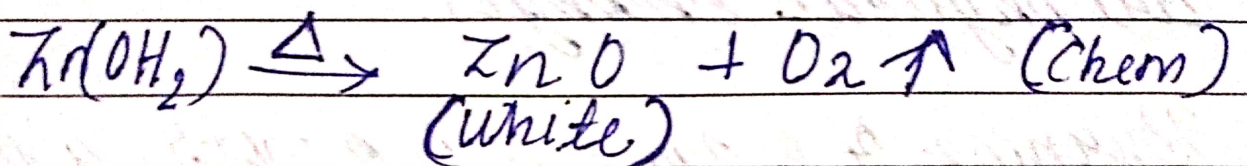
ans ⇒ As the candle burns the wax starts melting which is a physical change, also the flame of the candle converts the wax into vapour and carbon dioxide due to burning which is an example of chemical change hence burning of candle is both physical and chemical change.

(c) Burning of paper is chemical change.

ans - When paper is burnt it produces ash, carbon dioxide and water vapour & some quantity of other substances which are used in paper making and in ink releasing heat and light energy. The new products are formed and it is irreversible so it is a chemical change.

(d) Cutting of a cloth piece is a physical change though it cannot be reversed.

ans It is a physical change because it changes physically when we cut the cloth but it is not reversible, though there is no chemical change. That's why it is stated that cutting of a cloth piece is a physical change though it cannot be reversed.



iii) By heating sodium nitrate NaNO_3

