



7. Explain why burning of wood and cutting it into small pieces are considered as two different types of changes. ~

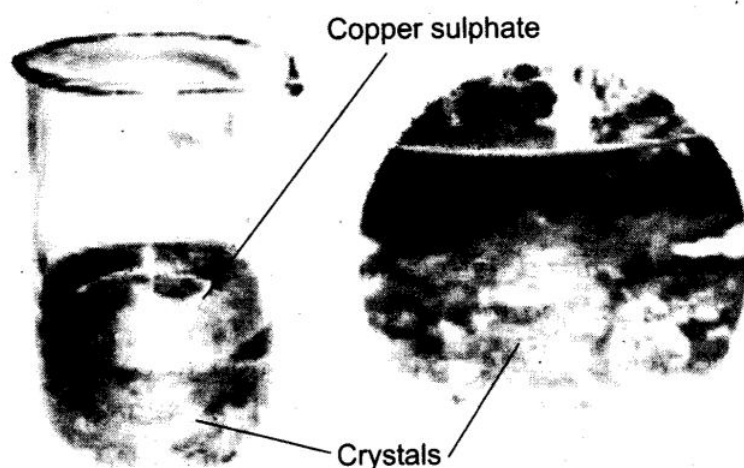
Answer: Burning of wood is a chemical change because in burning new substances are formed as

Wood + Oxygen \rightarrow Charcoal + Carbon dioxide + Heat + Light

But cutting it into small pieces is physical change because no new substance is formed. We can only reduce the size of wood.

8. Describe how crystals of copper sulphate are prepared.

Answer: Take a cupful of water in a beaker and add a few drops of dilute sulphuric acid. Heat the water. When it starts boiling, add copper sulphate powder slowly. Continue to add copper sulphate powder till no more powder can be dissolved. During this process continuously stir the solution. Filter the solution. Leave it for cooling. Look it after some time, you can see the crystals of copper sulphate.



9. Explain how painting of an iron gate prevents it from rusting?

Answer: It is known that for rusting the presence of oxygen and moisture is essential. Painting prevents the iron gate from coming in contact with oxygen and moisture.

10. Explain why rusting of iron objects is faster in coastal areas than in deserts.

Answer: As content of moisture in the air in coastal areas is higher than in the air in deserts. So, the process of rusting is faster in coastal areas.

11. The gas we use in the kitchen is called liquified petroleum gas (LPG). In the cylinder it exists as a liquid. When it comes out from the cylinder it becomes a gas (Change- A) then it burns (Change-B). The following statements pertain to these changes. Choose the correct one.

(i) Process-A is a chemical change.

(ii) Process-B is a chemical change.

(iii) Both processes A and B are chemical changes.

(iv) None of these processes is a chemical change

Answer: (ii) Process-B is a chemical change.

12. Anaerobic bacteria digest animal waste and produce biogas (Change-A). The biogas is then burnt as fuel (Change-B). The following statements pertain to these changes. Choose the correct one.

(i) Process-A is a chemical change.

(ii) Process-B is a chemical change.

(iii) Both processes A and B are chemical changes.

(iv) None of these processes is a chemical change.

Answer: (iii) Both processes A and B are chemical change

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