

## HOTS AND CASE STUDIES(CH-6)

### HOTS:

1. Why does the stainless steel not rust?
2. Solid wax melts into liquid when heated. Name other Substance which also melts into liquid when it is heated? (One example)
3. What happens when an iron blade of a knife is dipped in a copper sulphate solution? What kind of change takes place?
4. Why the cans of Coco Cola are made of tin rather than iron?
5. Are galvanisation and crystallisation same? Give reason for your answer.
6. What happens if a small piece of magnesium ribbon is heated? What type of change is burning magnesium ribbon? What happens if burnt magnesium oxide ash mixed with water?

### **CASE-STUDIES:**

7. Ramu asked Sunita 'Melting of wax is a change where a solid changes to liquid state. Give one more change of chemical which you observe in your surroundings.  
Sanita told "Burning of paper"  
(i) Explain why Sanita gave this answer to Ramu ?  
(ii) Give more examples like this.  
(iii) Write the difference between the characteristics of physical and chemical changes?
8. When a grey coloured object is made of metal A is left exposed to damp air for a considerable time it gets covered with a red brown flaky coating by the process of B which eats up the whole object gradually. It is said that the presence of object C and D is necessary for this. If the object is galvanized by metal E, then the process B doesn't occur.
  - a) Name the metal A.
  - b) Name the process B.
  - c) What are C and D.
  - d) Name the metal E.
9. When an object is made of material P is kept immersed in in the blue coloured solution Q then a chemical change takes place to form a green solution R and a brown layer S . P is used to make nails whereas S is used to make electric wires .
  - A) Name the P.
  - B) Name Q.
  - C) What could the substance R be.
  - D) What is S.