

15. Identify the type of each of the following reactions:

- (a) A reaction in which a single product is formed from two or more reactants.
- (b) The reaction mixture becomes warm.
- (c) An insoluble substance is formed.

16. Illustrate an activity to show a double displacement reaction. Give the chemical equation of the reaction that takes place.

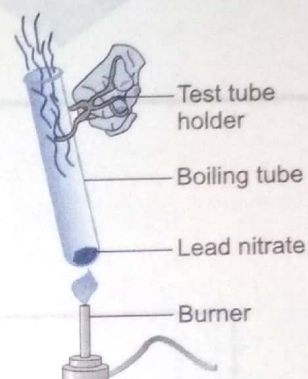
### Long Answer Questions

[5 marks]

17. Why aluminium sheets do not corrode easily? Why does a copper vessel get covered with a green coating in rainy season?

18. Observe the diagram given alongside and answer the following questions:

- (a) What do you observe when lead nitrate is heated?
- (b) Mention the two gases evolved during heating.
- (c) Write the balanced chemical equation for it.
- (d) What is the type of chemical reaction called?
- (e) Give one more example of this type of reaction.



19. (a) (i) Define corrosion. Under what conditions does corrosion take place?  
(ii) Give the formula and the chemical name of rust.

(b) Give two methods to slow down rancidity.

20. Write balanced chemical equations for the following word equations:

- (a) Calcium hydroxide + Carbon dioxide  $\longrightarrow$  Calcium carbonate + Water
- (b) Phosphorus pentachloride + Water  $\longrightarrow$  Phosphoric acid + Hydrogen chloride
- (c) Zinc + Silver nitrate  $\longrightarrow$  Zinc nitrate + Silver
- (d) Sodium + Water  $\longrightarrow$  Sodium hydroxide + Hydrogen
- (e) Aluminium + Copper chloride  $\longrightarrow$  Aluminium chloride + Copper

