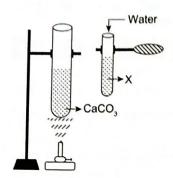
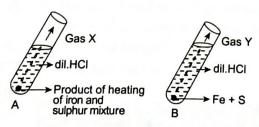
Directions for questions 1 and 2: Answer questions based on the diagrams given below.



- Q1. What could be the substance 'X' obtained from heating in the first test tube?
  - (a) CaCO,
- (b) CaO
- (c) CO,
- (d) CaC,
- Q2. What happens in the second test tube?
  - (a) X dissolves in water
  - (b) X reacts with water with evolution of heat
  - (c) X reacts with water with absorption of
  - (d) No characteristic change is observed

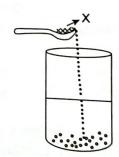
Directions for questions 3 to 7: Answer questions based on the diagrams given below.



- O3. Name the solid substance taken in the test tube A.
  - (a) Mixture of Fe and S
  - (b) FeSO<sub>4</sub>
  - (c) Only Fe
  - (d) FeS
- Q4. Name the gas coming out of the test tube A.
  - (a) H,S
- (c) SO,
- (d)  $SO_2 + SO_3$

- Q5. Name the gas coming out of test tube 'B'.
  - (a) H,S
- (b) H,
- (c) SO<sub>2</sub>
- (d) HCI
- Q6. In one of the test tubes, the gas catches fire with pop sound. Identify the test tube and give
  - (a) Test tube 'A' as H<sub>2</sub>S evolved catches fire
  - with pop sound (b) Test tube 'A' as H<sub>2</sub> evolved catches fire with pop sound
  - (c) Test tube 'B' as H<sub>2</sub>S evolved catches fire with pop sound
  - (d) Test tube 'B' as H<sub>2</sub> evolved catches fire with pop sound
- be the Q7. Which of the following could identification test for gas 'X'?
  - (a) Passing through lime water
  - (b) Passing through CuSO<sub>4</sub> solution
  - (c) Exposure to paper dipped in K, Cr, O,
  - (d) Exposure to burning splinter

Directions for questions 8 and 9: Answer questions based on the diagram given below.



- Q8. The solution in the above beaker shows Brownian motion and the components cannot be separated by filtration. Identify 'X' added to
  - (a) Starch powder
- (b) Chalk powder
- (c) Sand
- (d) Common salt
- Q9. What is the term used to describe 'X'?
  - (a) Solute
- (b) Suspended particles
- (c) Dispersed phase
- (d) Dispersion medium