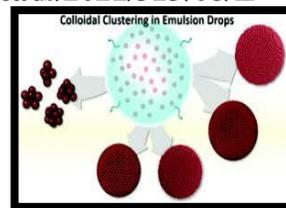
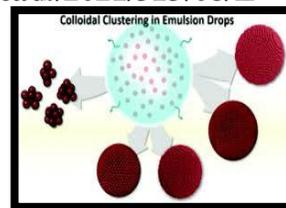


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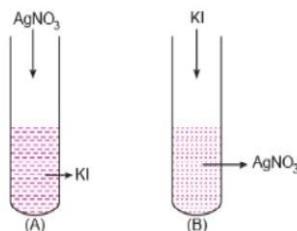


1. A delta is formed at the meeting point of sea water and river water. Why?
2. A factory was situated very close to the residential area where Sita lived. The smoke coming out from the chimney was causing a lot of health problems to people living in the area. Sita and few others decided to meet the top of commercial of factory and gave idea of installing Cottrell's smoke precipitator.
  - (a). Name the principle used in Cottrell precipitator.
  - (b). How does precipitator cause precipitation and settling of smoke particles ?
  - (c). What values do you attribute to Sita's concern ?
  - (d). What happens when a strong beam of light is passed through the smoke ?
3. Ramesh, living in Ooty, was washing clothes in cold water during winter. He found that the clothes were not getting clean properly. Geeta, his niece, suggested that he should wash clothes in warm water because washing of clothes with soaps/detergents is easier in warm water than cold water.
  - (a). Why is it so ?
  - (b). Why do we get lathers easily in warm water ?
  - (c). Define CMC.
  - (d). What values do you derive from this ?
4. Nandita observed that the barber applied alum on the face of his customer. He also observed her mother dissolving alum to purify muddy water.
  - (a). Which concept of colloidal solutions is observed by Nandita ?
  - (b). How are deltas formed ?
  - (c). State Hardy Schulze Rule.
  - (d). Write the value associated with the observation

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5. Explain how activated charcoal absorbs organic dye.
6. A colloidal solution of AgI is prepared by two different method as shown below:



- (a). What is the charge of AgI colloidal particles in the two test tube (A) and (B)?
  - (b). Give reasons for origin of charge.
7. Explain why:
  - (a). At sunset an orange color develops in the sky.
  - (b). Bleeding due to a small cut can be stopped by rubbing alum.
  - (c). Activated charcoal is used in gas masks used by charcoal miners.
8. Explain what is observed when :
  - (i) a beam of light is passed through colloidal sol.
  - (ii) an electrolyte NaCl is added to ferric hydroxide sol.
  - (iii) electric current is passed through a colloidal sol ?
9. Give the factors governing color of tyndal solution.
10. Define weeping of gels? Give the other name of weeping.