

If dichloromethane (DCM) and water ( $H_2O$ ) are used for differential extraction, which one of the following statements is correct ?

- A DCM and  $H_2O$  would stay as upper and lower layer respectively in the separating funnel (S.F.)
- B DCM and  $H_2O$  will make turbid/colloidal mixture
- C DCM and  $H_2O$  would stay as lower and upper layer respectively in the separating funnel(S.F).
- D DCM and  $H_2O$  will be miscible clearly

## Explanation

Density of DCM = 1.39 and density of  $H_2O$  = 1.0.

As density of DCM is higher than  $H_2O$  so DCM will stay lower in separating funnel.