

Ans(5/2)

* COD \Rightarrow chemical oxygen demand in environmental chemistry the chemical oxygen demand is an indicates measure of the amount of oxygen that can be consumed by reactions in a measured solution. it is commonly expressed in mass of oxygen consumed, over volume of solution which in units is milligrams per litre (mg/l) A COD test can be used to easily quantify the amount of organic in water the most common application of COD is in quantifying the amount of organics in water The most common application of COD is in quantifying

* Displacement efficiency \Rightarrow is a measure of the amount of mobile fluid in the system in addition to displacement efficient for all depends on the amount of all contacted by mobile fluid Areal vertical Swage efficient measure the degree of contact b/w in tube and injected fluid.
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* Short Circuiting \Rightarrow Shorting (a process or activity) by using a more direct (but often improper) method
verb: Short circuit Short circuit is an electrical that allow to currents to travel along an unimpeded path with very few electronic impedence the result is an excessive current flowing through the circuit. The opposite of a short circuit is a open circuit which is an infinite b/w two nodes.

* Non Carbonate hardness \Rightarrow Called permanent hardness because it is not removed when the water is heated it is much more expensive to remove non carbonate hardness

\Rightarrow Ca^{2+} , Mg^{2+} associated with other ions Cl^- , NO_3^- , SO_4^{2-}

\Rightarrow $\text{NCH} = \text{TH} - \text{CH}$

\Rightarrow if Alkalinity \rightarrow Total Hardness then $\text{NCH} = 0$.