5

Question 25 (5 marks)

What is the relationship between dissolved oxygen and biochemical oxygen demand and why is it important to monitor both in natural ways?

Monitoring the quality of water in natural water ways is crucial for maintaining a high quality source of water; natural ecosystem.

There is an observable relationship between dissolved oxygen + biochemical oxygen demand in natural ways. While not available in huge supplies dissolved to is imperitive to maintaining the quality of natural water ways - if not present or present in insufficient amounts, proorganisms in the waterways will die, the water bocomes stagnant + embophication occurs. Do is measured

Electronical Oxygon demand is a measure of the demand organisms in water place upon the presence of disserved exygen. This can be measured by taking a sample of water testing it for disserved 02, then teaving the sample closed in a black cupboard for 5 days before retesting a black cupboard for 5 days before retesting. The difference in measure ments is the BOD. If the difference in measure ments is the BOD. If demand is too great for amount of D.O., there is an issue with the water source—that should be addressed to regain health to the natural way

It is thus essential that scientists continually monitor water sources - to maintain the quality of the water, the health - of the ecosystem to prevent disease.