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?

As $\text{BOD} \neq \text{DO}$

- Dissolved oxygen is necessary for life in waterways to function. If it is depleted, the natural processes will disrupt, as most life in the water disappears. Anaerobic bacteria take over decomposition. Thus, it must be monitored carefully.

If $\text{BOD} > \text{DO}$, it is a sign that more waste is being broken down using oxygen. This would signal an increase in detrimental levels. If $\text{BOD}$ is much $> \text{DO}$, then the consequences are dire; both indicators must be monitored.