Question 25 (5 marks)

What is the relationship between dissolved oxygen and biochemical oxygen demand 5 and why is it important to monitor both in natural ways?

(DO) Dissolved oxygen is the amount of oxygen (02) discolured in a unit volume of water at a set temperature (usually 20°c) while prochemical onygen demand (BOD) is a measure of the oxygen required by aerobic bacteria for the decomposition of organic matter BOD uses DO to monitor levels in natural ways, by taking a sample of water and measuring its DO using an onjoen probe, and keeping another sample of the water for 5 days includated willrout light at 20°C The BOD = DO days - DO days This level should roughly be at 9 ppm it is very important to monetor levels of DO and thus BOD in natural ways restricts the respiration of and as too little on aquatic We, while too much can lead to increased dissolution of PO,³⁻ and NOs-reutrophication). This forms blooms at of PO1s and NOs (entrophication). restrict photosynthesis subace of the water which causing the death of aquatre plants which release toxurs, making the water unslightly, odouiful and not useable.