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? Dissolved organ is the mount at molecular oxygen dosolved in on while sample, up te brochemical organ Nemand (600) measures the capacity of microkes in the water best sume the otygen. bence, these two indicators of wrater quality are linked. STALE to measure BUD, one must also measure DO. M. TO measure DD, one could use an otygen sonsol probe or undertake The wonkler Atrahon. to reasure BUD, one would men take two wake samples in proved test tubes: O one test type has the As AD measured as above only the other is incubanted in the dark at 25°C for 5 days and then has it DD measured. The difference in the to DD values is the BDD value. It is important to monitor both in habred waternays, since they are indicators of water pollution by a variety of Factors, including heats and micro-organsing. Do reflects water pollution since on abnormally low amount of it suggests that conditions are not suitable to sustain life, since underwater plants and animals use po for thorosynness and respondent, respectively. Low values of DO could indicate Hermal pollution or the reserve of two many microkes that use up the DD. This is linked with 100 BOD, which measures The extend to which the PO is consumed by antero-againstis in the whiler, where a high BOD inditakes water pollution as they use up he bo in the water. The descentes