



- a) Monoamine oxidase  
b) Glucose oxidase

- c) Invertase  
d) Urease

**Q-2 Answer the following (Attempt all)**

08

1. Bioplastic emits green house gases. State true or false.
2. \_\_\_\_\_ Biosensor use the movement of electrons produced during redox reaction.
3. The process of extraction of metal by microorganism is called \_\_\_\_\_.
4. *Thiobacillus* group of bacteria are chemolithotrophic. State true or false.
5. Fluorosis occurs due to biomagnifications of \_\_\_\_\_.
6. Composting is a method of in situ bioremediation. State true or false.
7. A secondary waste water treatment uses \_\_\_\_\_ to consume waste.
8. High concentration of DO is harmful for aquatic life. State true or false.

**Q-3 Short Question (attempt any ten)**

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1. What is the function of aeration tank?
2. Give suitable difference between BOD and COD.
3. What do you understand by bioleaching?
4. What is Smog and discuss it as pollutant.
5. Give example of bacteria used in bioleaching.
6. What is biobenefication?
7. Give limitation of phytoremediation.
8. Define Bioaugmentation and Biostimulation.
9. What are xenobiotic compounds and how are they hazard to environment?
10. Give properties of Biosensor.
11. Give application of Bioplastic.
12. Give application in Biosensor.

**Q-4 Long Question (any four)**

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1. Discuss various pollutants in Air Pollution.
2. Discuss secondary treatment of waste water treatment.
3. Explain the mechanism of bioleaching of copper metal from ore.
4. Give general properties microorganism involved in leaching and give significance of leaching.
5. Give a detail account of Biomagnifications with suitable examples.
6. Discuss in situ and ex-situ bioremediation.
7. Give principle, diagram and working of Biosensor.
8. Discuss approaches for production of Bioplastic.

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