Mini Quiz: Thermal Pollution and Aquatic Ecosystems

Multiple Choice Questions (MCQs)

1. What is the most direct effect of increased water temperature on aquatic ecosystems?

   A. Increased salinity

   B. Reduced dissolved oxygen levels

   C. Faster sedimentation

   D. Decreased nutrient levels

2. Which of the following is the largest global contributor to thermal pollution?

   A. Agriculture

   B. Urban development

   C. Power generation facilities

   D. Plastic manufacturing

3. Why do fish like trout struggle in water above 25°C?

   A. The water becomes too salty

   B. They need higher temperatures to reproduce

   C. Oxygen levels drop below their survival threshold

   D. Warmer water blocks sunlight

4. What does a closed-loop cooling system do?

   A. Removes pollutants from water

   B. Reduces oxygen in industrial wastewater

   C. Reuses water to limit temperature discharge

   D. Adds heat to help aquatic species

5. What can result from a sudden temperature change in a water body (thermal shock)?

   A. Improved water clarity

   B. Algal bloom

   C. Mass death of aquatic life

   D. Cold-water fish migration

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True or False Questions

6. Warmer water can hold more dissolved oxygen than colder water. (True / False)

7. Deforestation near water bodies can increase thermal pollution. (True / False)

8. Cyanobacteria (blue-green algae) thrive in cooler, shaded water. (True / False)

9. Thermal pollution can interfere with aquatic species' reproductive cycles. (True / False)

10. Climate change and thermal pollution are unrelated phenomena. (True / False)

Answer Key

1. B
2. C
3. C
4. C
5. C
6. False
7. True
8. False
9. True
10. False