



THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions. (15x2=30)

- 1. What does BOD of a water sample indicate? Why the value of COD is always greater than BOD?**
- 2. Name four most important sources of Eutrophication in Pakistan?**
- 3. Name four most important water borne diseases prevalent in Pakistan.**
- 4. Name the important components of Sewage Fungus Community and give one example of each.**
- 5. Differentiate between Biomagnification and Bioaccumulation. Exemplify and explain Biomagnification.**
- 6. What is Bottom-up technique used in environmental management of aquatic water bodies?**
- 7. Differentiate between alkalinity and pH.**
- 8. What does electrical conductivity of a water sample indicate?**
- 9. How is integrated pest management better than using pesticides? What is cultural management of pests?**
- 10. Name the important pesticides that have been banned and why they were banned**
- 11. What is the fate of a pesticide in the environment?**
- 12. What are NEQS and why they are important?**
- 13. What are the methods to control pesticide pollution?**
- 14. What are Constructed Wetlands?**
- 15. Why should water be treated before supplying to metropolitan areas?**

Q.2. Answer the following Questions.

- 1. Compare and contrast the Trickling filters, Activated sludge tanks and Oxidation ponds in detail also giving their graphic sketches. Which methods do you think would be more feasible for treatment in Pakistan? (8+2)**
- 2. Compare and contrast Organic pollution and Eutrophication. (10)**
- 3. What is oil pollution and what are its causes? What is the fate of oil when it falls on water surface? Give some important methods to control oil pollution. (4+3+3)**