

**Programme:** B. Tech

**Course Name:** Environmental Engineering - I

**Course Code:** ECE 358

**Assignment – 3**

**Topics Covered – Unit 2 (CO2)**

### **Assignment -3**

1. In a neat tabular format, compare the use of groundwater with surface water bodies as a source of water supply. In the same context, please discuss the applications of lake and rivers as a source of water supply from a surface source.
2. List some of the water borne diseases caused by different classes of pathogens.
3. With a neat sketch, please explain the thermal stratification of a water body.
4. Explain the factors which govern the selection of the source of water supply
5. Explain the different types and functions of a reservoir
6. Discuss the different factors affecting the location of Intake structure
7. With a neat sketch, explain the working of *any one* of the submerged intake structure.
8. With a neat sketch, explain the working of (a) wet intake tower (b) a dry Intake tower
9. Compare and contrast the functioning of a wet and dry intake tower.
10. With a neat sketch, explain the functioning of (a) a single well and (b) twin well intake system.
11. Explain the difference in functioning of above
12. Explain with a neat sketch the functioning of a canal intake system