**Assignment-Gas-Liquid Contactor**

1. List the Gas liquid contactors in which (i) gas is dispersed (ii) liquid is dispersed
2. Draw a schematics of the tray column labeling different parts. Describe the purpose of each part.
3. Describe the different types of trays. List the advantages and disadvantages of different trays.
4. Explain the terms (i) dumping, (ii) weeping, (iii)entrainment, (iv) flooding
5. Draw the performance graph of the sieve tray with proper label indicating the working region and all other regions
6. Explain how you will design the diameter of the Tray column for a given liquid and gas flowrate?
7. Draw a schematics of the Packed column labeling different parts. Describe the purpose of each part
8. Describe the desired characteristics of packing
9. With the help of a log-log plot of pressure drop vs. gas flowrate, explain loading and flooding
10. Explain Eckert’s GPDC to determine the pressure drop at flooding
11. Make a comparison table for Tray column vs. Packed column