M.E. Chemical (Ist Year)
MASS TRANSFER
Ist Sessional

Max Marks : 30 **Time : 1.0 Hrs**

Note : Attempt All Questions. Assume Missing data if Any.

1. What are the various separation process and explain any two in detail (7)

2. Write short notes on the following : P- X- -Y diagrams and T – X – Y diagrams . (6)

3. A liquid mixture of 60 mol % benzene and 40 mol % toluene is charged to a still pot where differential distillation is carried out at 1.2 atm. How much of the charge must be boiled away to leave a residue containing 80 mol% toluene. Bubble point of 60 mol% mixture of benzene is 193^{0} F and 80 mol% toluene mixture is 217^{0} F . Relative volatility changes from 2.36 to 2.54 (9)

4. Write short notes on the following : Hengstebeck method and smith Brinkley method (8)