

| 9 | a) | Choice of solvent-minimum 7 criteria - (7*1) | (7) |
| :--- | :--- | :--- | :---: |
|  | b) | Three defintions - (3) | $(3)$ |
| 10 | a) | Discussion of HETP - (3), significance - (2) | $(5)$ |
|  | b) | Absorption with chemical reaction - (5) | $(5)$ |
| 11 |  | Neat schematic- construction-parts-functions | $(10)$ |
| 12 | a) | V-L equilibria - graph - (3), discussion - (2) | $(5)$ |
|  | b) | q-line definition - (2), importance - (3) | $(5)$ |
| 13 | a) | Differential distillation - figure - (2), discussion - (2), equations - (2) | $(6)$ |
|  | b) | Reflux ratio - definition - (1), equation - (1), importance - (2) | $(4)$ |
| 14 |  | Mc-cabe Thiele method-assumptions <br> Continuous rectification column-schematic <br> Operating line equation- enriching section and stripping section <br> Graph-equilibrium line and operating lines <br> Procedure for calculating number of trays | $(3)$ |

