

|  |  | concentrations of oxygen at two phases 2 mm apart are 10 and $20 \%$ by volume respectively. cases where- <br> i) the nitrogen is non diffusing <br> ii) There is equimolar counter diffusion of the two gases. Diffusivity of oxygen in nitrogen is $1.81 * 10^{-5} \mathrm{~m}^{2} / \mathrm{s}$. |  |  |  |
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| Module-5 |  |  |  |  |  |
| 9 | a. | Demonstrate the types of distillation and with neat sketch explain simple distillation | CO5 | L3 | 10 |
|  | b. | Illustrate factors for selection of solvent used in extraction process. | CO5 | L4 | 10 |
| Or |  |  |  |  |  |
| 10 | a. | With neat diagram explain mass transfer in tray dryer. | CO5 | L4 | 10 |
|  | b. | Demonstrate the following terms <br> i) Moisture content wet basis <br> ii) Moisture content dry basis <br> iii) Falling rate period <br> iv) Free moisture content <br> v) Relative humidity | CO5 | L3 | 10 |

