| Q.30 Describe the mixer-settler extraction system in brief. | | | | . of Printed Pages : 4 Il No | 126844 |
|---|---|-----------------|---------------------------|--|-----------------------|
| Q.31 Prove that DAB = DBA for equimolar counter | | | 4th Sem. / Chemical Engg. | | |
| diffusion. | | | Subject : Mass Transfer | | |
| Q.32 Describe in brief the diffusion in solids. SECTION-D | | | Time : 3 Hrs. M.M. : 100 | | |
| | | | | | |
| | the construction & ng distillation. | k working of | Q.1 | Write name of any one sol | id-gas mass transfer |
| Q.34 Describe the extractor. | ne construction & work | king of Bollman | Q.2 | Write name of any one gas operations. | -liquid mass transfer |
| Q.35 Describe to dryer. | 35 Describe the construction & working of rotary dryer. | | Q.3 | · | than the dry |
| Q.36 Compare packed tower and plate tower. | | | Q.4 | Expand HETP. | |
| | | | Q.5 | Driving force for diffusion is | · |
| | | | Q.6 | Write the name of any continuous drying. | one dryer used for |
| | | | Q.7 | Write the name of any type | of regular packing. |
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Q.8 Write the name of any type of plate/tray used in Q.20 Define critical moisture content. column/tower Q.21 Define dew point. Q.9 Write any one solvent used for gas absorption Q.22 State Rault's law. operation. **SECTION-C** Q.10 In extraction mass transfer operation Note: Short answer type questions. Attempt any eight phases are involved. questions out of ten questions. (8x5=40)**SECTION-B** Q.23 Describe the effect of changing the reflux ratio **Note:** Very short answer type questions. Attempt any on tower size. ten questions out of twelve questions. (10x2=20) Q.24 Describe the flash distillation. Q.11 Define diffusion. Q.25 Describe eddy diffusion & how it affects the rate Q.12 Define mass transfer coefficient. of diffusion. Q.13 Define Humidity. Q.26 Describe the selection criteria for solvent for gas absorption. Q.14 Define unbound moisture content. Q.27 List and draw different types of arrangement in Q.15 Define reflux ratio. cooling towers. Q.16 Define humid volume. Q.28 State the conditions in which weeping and Q.17 Define equilibrium moisture content. entrainment occurred in a column & their remedies. Q.18 Define de-humidification. Q.29 Enlist the need of drying a material. Q.19 Define Azeotrope. (2)(3)126844 126844