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| carbon monoxide non diffusing. The total pressure is 1 * 10 ⁵ N/m ² and temperature 0°C. The partial pressure of oxygen at two planes 2 mm apart is respectively, 13000 and 6500 | Oxygen (A) is diffusing through carbon monoxide (B) under steady state conditions with | n for countercurrent flow Absorption Operation | Explain term Cascade with their types. Solve Any One of the following. | | Solve Any Two of the following. What is process to Choose solvent for Absorption operation? | theory as a) $K \propto D$ b) $K \propto D^{0.5}$ c) $K \propto D^{1.5}$ d) $K \propto D^2$ | 6. Mass transfer co-efficient (K) and diffusivity (D) are related according to film | | stagnant ideal gas at steady state follows a/anlaw a) exponential b) | 5. The partial pressure distribution of an ideal gas diffusing through another | Stanton b) Sherwood c) Peclet d) none of these | 4. $(N_{Re} \cdot N_{Sc})$ is termed in mass transfer operation as the number a) | volatility c) absorption factor d) Murphree efficiency | 2. Schmidt number is given bya) 3. The reciprocal of stripping factor is termed as a) selectivity index b) relative | diffusion. A) pressure b) | Assume suitable data wherever required. npt following Questions. | Instructions to the Students: All questions are compulsory. Question one are compulsory. Solve any two from question 2 and solve any one from question 3. | Max Marks: 20 Date: - 24/09/2019 Duration: - 1 Hr. | Subject Name: Mass Transfer Operation-I Subject Code: BTCHC 502 | Course: B. 1 ech in - Chemical Sem: 111 |
| | Evaluation | Application | Application | Understand | Remember | | Understand | | | Understand | | Remember | | Application Analysis | Evaluation | (Level/CO) | | | 502 | |

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