

- Q.29 Discuss Flashor Equilibrium Distillation.
- Q.30 Classify Membrane.
- Q.31 Writes about reflux ratio, total reflux ratio, Minimum reflux ratio & optimum reflux ratio
- Q.32 Discuss the Roault's Law, Dalton's Law.
- Q.33 Explain about application of extraction and application of leaching.
- Q.34 Write about Vapour Liquid Equilibria.
- Q.35 Describe about the different Concept in distillation columns.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the packed column distillation column with neat and diagram
- Q.37 Describe the construction and working of agitated tank crystallizer.
- Q.38 Write short note on any three:-
- Adsorption isotherms
 - Steam Distillation
 - Relative Volatility
 - Rayleigh's equation

No. of Printed Pages : 4

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Roll No.

5th Sem / Chemical Engg (P & P)

Subject:- Mass Transfer - II

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The humidity is represented in:
- Humidity chart
 - Psychometric chart
 - Psychometric chart or humidity chart
 - All of above
- Q.2 Thermometer measurement temperature is
- Dry bulb temperature
 - Wet bulb temperature
 - Dew point temperature
 - Room temperature
- Q.3 Moisture removal from a material/ Compound is known as drying.
- TRUE
 - FALSE
- Q.4 The cooling towers are
- natural cooling tower
 - draft cooling tower
 - Both A & B
 - None of above

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- Q.5 Solvent extraction is basically known as
- Gas-liquid extraction
 - Liquid-liquid extraction
 - Liquid-solid extraction
 - None of above
- Q.6 Classification of crystallizers
- agitated tank crystallizer
 - baffle tube crystallizer
 - vacuum crystallizer
 - all of above
- Q.7 Packed tower with _____ packing preferable for liquid extraction.
- Uniform
 - Random
 - Complete
 - None of above
- Q.8 RO is
- Reverse osmosis
 - reverse organ
 - Both A & B
 - None of above
- Q.9 The equipment used for extractions are
- mixer settler
 - spray tower
 - agitated tower
 - all of above
- Q.10 The sugar gets leached from the sugar beet with the help of solvent water, the process is called
- Leaching
 - distillation
 - drying
 - None of above

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Write full form of RO?
- Q.12 What is weeping?
- Q.13 Write formula for reflux ratio.
- Q.14 What is adsorption?
- Q.15 What is loading?
- Q.16 Write one application of extraction.
- Q.17 Name any one mass transfer process.
- Q.18 Define leaching?
- Q.19 Write one application of membrane?
- Q.20 Write one equipment used for distillation?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Difference between azeotropic Distillation and extractive distillation.
- Q.22 Write about concept of Adsorption operation.
- Q.23 Discuss about dialysis?
- Q.24 Describe about the filtration with diagram.
- Q.25 Explain McCabe Theile Method.
- Q.26 Explain mixer settler with construction and working.
- Q.27 Writes about the baffle tube crystallization.
- Q.28 Write about microfiltration with diagram.