

- Q.29 Discuss Flash or 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 Raoult'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

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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

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