

- Q.5 Define bubble point
- The temperature where the first bubble of vapour is formed
 - The temperature of the air needs to be cooled to the bubble
 - The temperature at which first drop of water is formed
 - The pressure at which the first drop of water is formed
- Q.6 Name any one solvent
- Salt
 - Bronze
 - Methanol
 - Sugar
- Q.7 Which of the following is mass transfer operation ?
- Gas absorption
 - Heat transfer operation
 - Convection
 - Radiation
- Q.8 Which of the following flow is related of cooling tower ?
- Parallel flow
 - Counter flow
 - Perpendicular flow
 - Horizontal flow
- Q.9 The sum of internal energy and the product of pressure and volume of thermodynamic system is ?
- Entropy
 - Enthalpy
 - Dew point
 - Moisture content

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- Q.10 The process of movement of molecules under a concentration gradient ?
- Distillation
 - Diffusion
 - Extraction
 - Moisture content

SECTION-B

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

- Q.11 Name of the two mass transfer theories ?
- Q.12 Write the unit of mass transfer and coefficient ?
- Q.13 What is fluidised bed ?
- Q.14 Define batch process ?
- Q.15 Write a note on dew point ?
- Q.16 Define drying ?
- Q.17 Name any one column of random packing ?
- Q.18 Define diffusion ?
- Q.19 Define Raoult's law ?
- Q.20 Define cooling tower ?

SECTION-C

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

- Q.21 Explain wet bulb temperature with neat diagram ?
- Q.22 Write properties of tower packings ?
- Q.23 Write a role of diffusion in mass transfer ?
- Q.24 What is equilibrium vapour pressure condition of equilibrium between gas and liquid ?

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