

## Chemical Engineering Mass Transfer Quiz Questions & Answers

1. Rose oil is extracted from rose leaves using \_\_\_\_ distillation.

- a. high pressure
- b. low pressure
- c. extractive
- d. steam

Ans: D

2. The most efficient cooling tower out of the following is

- a. induced draft
- b. forced draft
- c. natural draft
- d. atmospheric

Ans: A

3. In a physical term, Schmidt number means

- a. Thermal diffusivity/mss diffusivity
- b. Thermal diffusivity/momentum diffusivity
- c. Momentum diffusivity / mass diffusivity
- d. Mss diffusivity / thermal diffusivity

Ans: C

4. Molecular diffusion is caused by the

- a. Transfer of molecules from low concentration to high concentration region
- b. Thermal energy of the molecules
- c. Activation energy of the molecules
- d. Potential energy of the molecules

Ans: B

5. For absorbers, high pressure drop results in

- a. Increased efficiency
- b. Decreased efficiency
- c. High operating cost
- d. Better gas liquid contact

Ans: C

6. Henry's law states that the

- a. Partial pressure of a compound over a solution is proportional to its mole fraction in the liquid
- b. Partial pressure of a component over a solution is proportional to the mole fraction in the vapour
- c. Vapour pressure is equal to the product of the mole fraction and total pressure
- d. Partial pressure is equal to the product of the mole fraction and total pressure

Ans: A

7. Azeotropic distillation is employed to separate

- a. Constant boiling mixture
- b. High boiling mixture

- c. Mixture with very high relative volatility
- d. Heat sensitive materials

Ans: A

8. Which of the following adsorbent is used to decolorise yellow glycerine?

- a. Silica gel
- b. Alumina
- c. Fuller's earth
- d. Activated carbon

Ans: D

9. Rate of absorption increases as the

- a. Temperature increases
- b. Temperature decreases
- c. Pressure decreases
- d. Size of adsorbent increases

Ans: B

10. Tower diameter may be decreased by

- a. using higher reflux ratio
- b. use of increased tray spacing
- c. increasing the liquid flow rate
- d. increasing the vapour flow rate

Ans: B

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