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Congratulations – you have completed **Mass Transfer Online Test Set 1**.

You scored **2** points out of **10** points total.

Your answers are shown below:

1. Flooding in a distillation column is detected by a sharp

- **increase in Murphree plate efficiency**
- decrease in liquid hold up in the column
- decrease in pressure drop
- increase in pressure drop



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2. For a single component absorber, the operating line is straight only when plotted in term of _____ units

- mole ratio
- **partial pressure**
- mole fraction
- none of these

3. In case of an unsaturated mixture of gas and vapor, the percentage saturation is _____ its relative saturation

- higher than
- lower than
- **either lower than or higher than, depends on the mixture composition**
- equal to

4. A pure drug is administered as a sphere and as a cube. The amount of drug is the same in the two tablets. Assuming that the shape and size do not influence the mass transfer, the ratio of rate of dissolution in water at $t = 0$ for the cubic to spherical tablet is

- 1.04
- **0.54**
- 1.24
- 1.94

5. Molality is defined as the number of gm moles of solute per _____ of solvent

- kg
- litre
- m
- **gm**

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6. Pick out the wrong statement

- Diffusion co-efficient and mass transfer co-efficient are not same in any mass transfer operation
- Contacting cold liquid with warm vapor-gas mixture exemplifies dehumidification process
- **Mass transfer co-efficient does not account for gase-liquid diffusion**
- Contacting cold vapor-gas mixture with hot liquid exemplifies humidification process

7. In extraction, as the temperature increases, the area of heterogeneity (area covered by binodal curve)

- decreases
- **remains unchanged**
- increases
- none of these

8. Minimum reflux ratio in a distillation column results in

- minimum number of trays
- **maximum condenser size**
- minimum reboiler size
- optimum number of trays

9. _____ is concerned with the adsorption equilibria

- none of these
- **Fick's law**
- Gibb's equation
- Freundlich equation

10. Plate efficiency

- is a function of the mass transfer between liquid and vapour
- increases due to foaming

- **increases due to liquid entrainment**
- increases due to weeping and dumping of liquid

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2 THOUGHTS ON “40 TOP MASS TRANSFER ONLINE TEST – MULTIPLE CHOICE QUESTIONS AND ANSWERS”



anupam mishra

SEPTEMBER 5, 2016 AT 7:50 AM

plz send all mass transfer square & ans.

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akshay

MAY 7, 2016 AT 8:49 AM

Please send 40 top mass transfer online test multiple choice question and answer . My email id akshaykumarch122@gmail .com

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