

Engineering Chemistry Questions and Answers – Chromatography

This set of Engineering Chemistry Multiple Choice Questions & Answers (MCQs) focuses on "Chromatography".

1. Chromatography is the process for identification, purification and separation of components of a mixture on the basis of
- a) Difference in their boiling point
 - b) Difference in their melting point
 - c) Difference in their affinity for mobile and stationary phase
 - d) Difference in their solubility

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Answer: c

Explanation: Chromatography is the process for identification, purification and separation of components of a mixture on the basis of difference in their affinity for mobile and stationary phases. The mixture is dissolved in a fluid called the mobile phase, which carries it through a structure holding another material called the stationary phase.

2. Chromatography involves two mutually
- a) Immiscible phases
 - b) Miscible phases
 - c) Soluble phases
 - d) None of the mentioned

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Answer: a

Explanation: Chromatography involves two mutually immiscible phases (stationary and mobile phases). The mixture is dissolved in a fluid called the mobile phase, which carries it through a structure holding another material called the stationary phase.

3. There is no need of support if packed into a column when the stationary phase is
- a) Gas
 - b) Liquid
 - c) Solid
 - d) None of the mentioned

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Answer: c

Explanation: If the stationary phase is solid, there is no need of support if packed into a column. In solid phase, all the molecules are already in a closed packing.

4. Which of the following is not stationary phase?
- a) Liquid-liquid chromatography
 - b) Gas-liquid chromatography
 - c) Gas-solid chromatography
 - d) Solid-solid chromatography

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Answer: d

Explanation: Solid-solid chromatography is not stationary phase because solid-solid phase cannot provide any fluidity.

5. Liquid chromatography is a technique for separating

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**Clyde Granger, Michael Riordan, James
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