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Course Name : D. Pharm
Year : First Year
Subject Name : Pharmaceutics
Topic Name : EXTRACTION

MULTIPLE CHOICE QUESTION

1. Which of the following is not a method of extraction classification?

- A) Based on the nature of the solvent
- B) Based on the method of heating
- C) Based on the mechanism of mass transfer
- D) Based on the number of stages involved

Answer: B) Based on the method of heating

2. Extraction methods based on the nature of the solvent include all of the following except:

- A) Solid-liquid extraction
- B) Liquid-liquid extraction
- C) Gas-liquid extraction
- D) Supercritical fluid extraction

Answer: C) Gas-liquid extraction

3. In which extraction classification method is the extraction solvent in a gaseous state?

- A) Solid-liquid extraction
- B) Liquid-liquid extraction
- C) Gas-liquid extraction
- D) Supercritical fluid extraction

Answer: D) Supercritical fluid extraction

4. Liquid-liquid extraction involves the transfer of solute molecules from one liquid phase to another. What is the solvent used for extraction known as?

- A) Extract
- B) Raffinate
- C) Solvent
- D) Effluent

Answer: C) Solvent

5. Which of the following is not a mechanism of mass transfer in extraction classification?

- A) Diffusion
- B) Dispersion

- C) Flocculation
- D) Capillary action

Answer: C) Flocculation

6. What does the term "counter-current extraction" refer to?

- A) The movement of solvents in opposite directions
- B) The extraction process in which the solvent flows in the same direction as the feed
- C) The extraction process in which the solvent flows in the opposite direction to the feed
- D) The extraction process involving multiple stages

Answer: C) The extraction process in which the solvent flows in the opposite direction to the feed

7. In extraction classification based on the number of stages involved, what does "multi-stage extraction" refer to?

- A) Extraction conducted in multiple vessels simultaneously
- B) Extraction conducted in multiple stages using a single vessel
- C) Extraction conducted using a single stage
- D) Extraction conducted using a single solvent

Answer: B) Extraction conducted in multiple stages using a single vessel

8. The term "counter-current extraction" is associated with which classification method?

- A) Based on the nature of the solvent
- B) Based on the mechanism of mass transfer
- C) Based on the number of stages involved
- D) Based on the method of heating

Answer: C) Based on the number of stages involved

9. Which of the following is a characteristic of solid-liquid extraction?

- A) It involves the transfer of solute molecules between solid and liquid phases
- B) It is only applicable to substances in a gaseous state
- C) It requires the use of a supercritical fluid as a solvent
- D) It is not commonly used in industrial processes

Answer: A) It involves the transfer of solute molecules between solid and liquid phases

10. Supercritical fluid extraction is primarily characterized by:

A) Low selectivity

B) High solubility

C) High viscosity

D) Low cost

Answer: B) High solubility