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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 extraction methods involves the transfer of solute molecules between solid and liquid phases?

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

Answer: B) Solid-liquid extraction

2. In which extraction 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

3. 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

4. Gas-liquid extraction is primarily characterized by:

- A) High solubility of solutes in the gas phase
- B) Low selectivity
- C) Use of a liquid solvent
- D) Transfer of solute molecules between solid and liquid phases

Answer: A) High solubility of solutes in the gas phase

5. Supercritical fluid extraction is primarily characterized by:

- A) Low selectivity
- B) High solubility
- C) High viscosity
- D) Low cost

Answer: B) High solubility

6. The term "counter-current extraction" is associated with which extraction method?
- A) Liquid-liquid extraction
 - B) Gas-liquid extraction
 - C) Solid-liquid extraction
 - D) Supercritical fluid extraction

Answer: A) Liquid-liquid extraction

7. Which extraction method involves the transfer of solute molecules between a gas and a liquid phase?
- A) Solid-liquid extraction
 - B) Liquid-liquid extraction
 - C) Gas-liquid extraction
 - D) Supercritical fluid extraction

Answer: C) Gas-liquid extraction

8. The extraction method where solutes are dissolved in a supercritical fluid is known as:
- A) Liquid-liquid extraction
 - B) Solid-liquid extraction
 - C) Gas-liquid extraction
 - D) Supercritical fluid extraction

Answer: D) Supercritical fluid extraction

9. In which extraction method does the solvent flow in the opposite direction to the feed?
- A) Liquid-liquid extraction
 - B) Gas-liquid extraction
 - C) Solid-liquid extraction
 - D) Supercritical fluid extraction

Answer: A) Liquid-liquid extraction

10. Multi-stage extraction involves:

- 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