

NAME:		ROLL NO:		TIME:	50: MIN
SUB:	Chemistry	Date:		CLASS:	1 st Year
SYLLABUS	Chp. 15 (Basic Separation Techniques)	T. MARKS	30	OBT. M	

Q. 1 Choose the Correct Answer. Cutting, Erasing, Double Selection is Strictly Prohibited. (1x6=6)

- After the crystals are formed, they are typically separated from the mother liquor by:
 - Evaporation
 - Decantation or filtration
 - Sublimation
 - Distillation
- The method that can be used to separate two solid compounds with different solubilities in a solvent is:
 - Distillation
 - Isolation
 - Crystallization
 - Filtration
- It is suspected that a hand-written legal document has been changed by over writing some crucial figures.
 - Distillation
 - Chromatography
 - Solvent Extraction
 - Crystallization
- The porous material used to separate the solid from the liquid during filtration is called the:
 - Filtrate
 - Residue
 - Filter medium
 - Solvent
- The difference between simple distillation and fractional distillation is the presence of a:
 - Condenser with a larger surface area
 - More powerful heat source
 - Fractionating column
 - Vacuum pump
- In chromatography, a locating agent is used to:
 - Dissolve the sample for separation
 - Carry the separated components along the stationary phase
 - Make colorless separated components visible for identification
 - Prevent the sample from interacting with the stationary phase

PART-I

Q. 2 Write Short Answers of the Following Questions (2x8=16)

- Differentiate gravity filtration and vacuum filtration.
- Differentiate between adsorption and partition chromatography.
- Why HF cannot be filtered through sintered glass crucible?
- What is chromatography?
- Differentiate between stationary phase and mobile phase in chromatographic technique?
- How does a Gooch crucible increase the rate of filtration?
- Write down the uses/application of chromatography.
- What is the significance of distribution coefficient in chromatography?

PART-II

Write Answers of the Following Questions in Detail.

- Q. 3 (a) Differentiate simple distillation and fractional distillation in construction and applications 4
 (b) Write down the procedure of ascending paper chromatography with diagram. 4



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Answer Key

1	B	2	C	3	B	4	C
5	C	6	C				