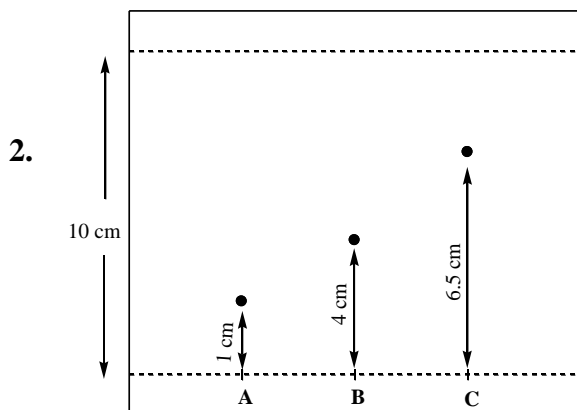


Practical Question
5th Semester Chemistry Honours
Department of Chemistry
Raiganj Surendranath Mahavidyalaya
Paper code: CEMHDCP12, FM-15, Time: 2 Hours

Answer all

1. What is chromatographic technique? Give examples of three different type of chromatographic techniques. 3

What is R_f value? Calculate R_f value of A, B and C. 2.5



3. Why does DL alanine shows a single spot in TLC despite being a mixture of D-alanine and L-alanine. 1.5
4. How column is prepared in column chromatography? Which one between Fluorescein and Methylene blue comes earlier when column is prepared by silica gel and alumina. Explain. 3
5. What differences will be found in IR and $^1\text{H-NMR}$ spectra for ortho and para isomer of hydroxy acetophenone 2
6. Explain the spectroscopic analysis (IR, $^1\text{H-NMR}$) of mesityl oxide. 3