School of Basic and Applied Sciences

Chemistry

ETE - Jun 2023

Time : 3 Hours **Marks : 50**

Sem II - MBS24T1104 - Techniques in Analytical Chemistry

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

1.	List out the theraml activities observed during the heating of a sample in DTA.	K2 CO4	(2)
2.	Define the range of spectrum applied in x ray analysis?	K2 CO3	(2)
3.	Define the retnetion factor (Rf) in chromatography	K2 CO2	(2)
4.	List out the type of chemical used for the detection of amino acids in TLC	K1 CO2	(2)
5.	Write the distribution coefficient.	K1 CO1	(2)
6.	Explain the various types of gaseous fuels used in AAS technique.	K3 CO3	(5)
7.	Explain the various parameters used for the selection of a solvents in solvent extraction techniques.	K3 CO1	(5)
8.	Explain the various instrumentation parts of TGA techniques with suitable diagram.	K4 CO4	(6)
9.	Explain the classification of chromatography based on stationary phase as well as on mobile phase.	K3 CO2	(8)
10.	Discuss the complete instrumentation of flame photometry with suitable diagram.	K4 CO3	(8)
11.	Analyze the complete instrumentation process of HPLC and its applications in various fields.	K4 CO2	(8)