2024

ANALYTICAL INSTRUMENTATION

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions

1.	a)	With neat diagrams, explain the working of single beam and double beam photometers.	12
	b)	With a neat diagram, explain the working of an Atomic Absorption Spectrophotometer.	8
2.	a)	With neat diagrams, explain any three types of gas analyzers.	20
3.	a)	With a block diagram, explain the working of GC.	6
	b)	Explain any two detectors used in GC.	14
4.	Explain the following:		
	a)	Flame Photometer	10
	b)	XRF Spectrometer	10
5.	a)	With neat diagrams, explain any three types of mass spectrometers.	20
6	a)	Explain ISE and its types.	10
	b)	Explain any two types of gamma ray detectors.	10