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	l No al N	o. of Questions : 08	Total No. of Pages: 01
		M.Sc. (Ph.Chem.) (Sem^ ANALYTICAL TECHNIQUES Subject Code: MSPC-103 Paper ID: [E0267]	S – I
Time: 3 Hrs. Max. Marks:			
INST 1. 2.	Att	CTIONS TO CANDIDATES: empt any FIVE questions out of EIGHT questions. ch question carries SIXTEEN marks.	
1.	(a)	Explain the concept of error, precision and accuracy.	(8)
	(b)	Explain the effect of pH and temperature on the solubi	lity of precipitates. (8)
2.			
3.	(10,6) Write an elaborative note on the principles of complexiometric titrations and methods usin EDTA.		
4.	Draw a block diagram of GC. Write an elaborative note on various detectors used with GC (4,12)		
5.	Wh	at is gravimetric analysis? Explain various methods of gr	
6.	(a)	Define common ion effect, primary standards, co-pr with example	ecipitation and chelating agent (8)
	(b)	Explain the titrations with percholric acid and their sig	nificance. (8)
7.		Write a detailed note on indicators. What are the various factors that govern the selection an indicator?	
8	Write a note on:		
	a)	Iodi- and Iodo-metric titrations	(8)
	b)	Ion-exchange chromatography	(8)