BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: BRANC		(LND SEMESTER EXAMINATION)	SEMESTER : I SESSION : MO/19	
TIME:	3.00Hrs.	SUBJECT: BE512: MODERN METHODS OF INSTRUMENTATION	I FULL MARKS: 50	
 INSTRUCTIONS: 1. The question paper contains 5 questions each of 10 marks and total 50 marks. 2. Attempt all questions. 3. The missing data, if any, may be assumed suitably. 4. Before attempting the question paper, be sure that you have got the correct question paper. 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall. 				
Q.1(a) Q.1(b)				[5] [5]
Q.2(a)	Design an equi equipment.	pment for performing liquid chromatography and explain	the principle of this	[5]
Q.2(b)				[5]
Q.3(a) Q.3(b)		's Lambert law and mention the limiting factors affecting this la rumentation and applications of ICP.	aw.	[5] [5]
Q.4(a) Q.4(b)		trumentation used for agarose gel electrophoresis. rious steps involved in SDS- PAGE starting from sample preparat	ion.	[5] [5]
Q.5(a) Q.5(b)	•	vint? Explain the calibration of TGA instrument using Curie poin trumentation of TGA. Give any example of thermogravimetric i		[5] [5]

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