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(LD	FOURTH YEAR B.PHARM. EXA		Sub. C	Juut. 4	
1	PAPER IV – MODERN METHODS OF PHARMACE		AT. ANZ	AL VSI	2
1	<u>Q.P. Code: 564270</u>				5
Tim	~	lavimi	um: 10	0 mar	ks
1 111	(180 Min) Answer ALL questions in the same		um, 10	o mar	IX D
ΙE	laborate on:		s Tim	e Mar	ks
1, 17		0	.)(Max		
1.	(a) Define Chemical Shift. Explain the factors affecting chemical shift.	(11142	•)(1•142	<b>(1)(1)10</b> 2	,
	(b) Write the principle, working procedure, types and	10		• •	
•	applications of Radio Immuno Assay.	19	33	20	
2.	(a) Write the theory, apparatus, working and applications	5			
	of Polarography.				
	(b) Define electrophoresis. Explain in detail about Gel	10	22	20	
	electrophoresis and Capillary electrophoresis.	19	33	20	
тт х	V				
	Write o note on ultracentrifugation	2	0	5	
	Write a note on ultracentrifugation.	3	8	5	
2.		3	8	5	
2	Liquid Chromatography.	3	0	3	
3.	$\mathcal{S}_1$	3	8	5	
1	exchange chromatography? Explain.	3	0	3	
4.	Write the identification and quantification procedures				
	involved in the separation of individual components from mixture by Thin Layer Chromatography.	3	8	5	
5	Write the principle involved in the separation of amino	3	0	5	
5.	acids by Paper Chromatography. Explain the reaction of	f			
	amino acid with Ninhydrin reagent.	3	8	5	
6	Write the principle, instrumentation and applications of		0	5	
0.	Nephalometry.	3	8	5	
7.		5	0	5	
7.	Spectrophotometry.	3	8	5	
8	How will you calculate $\lambda$ max by Woodward –Fischer r		8	5	
0.	The will you culculate willax by woodward Tischer is		0	5	
ш	Short Answers:				
1.	Bathochromic shift and Hypsochromic shift.	1	5	2	
	Relationship between concentration and fluorescence	1	0	2	
2.	intensity.	1	5	2	
3	Hallow Cathode Lamp.	1	5	2	
4.		1	5		
5.	Junction potential.	1	5	2	
6.		1	5	2	
7.	-	1	5	2 2 2 2	
8.		1	5	2	
9.	Capacity facto	-	1	5	2
	). Nernst – Glowe	1	5	2	
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