()	Cian and a City			VD 515		
(p)	Give an account of biocatalysis.	4		AP-517		
(q) (r)	Discuss about green fuels. Explain optimization of framework fo	4 r the design of	*	emester–VI Examination AL CHEMISTRY (R/V)		
	greener synthetic pathway.	4		nstru. Methods of Chemical Analysis, Green Chemistry)		
			Time: Three Hours]	[Maximum Marks : 80		
			(2) Attemption (3) Use of (3) Use of (3) Use of (4) The error was called as (ii) In ion exchanging (iii) In dyes, groups. (iv) X-rays are n	hich is either avoided or corrected error. nge chromatography, stationary phase are the colour bearing generated within the sample in nethod.		
	,		(B) Choose the corre (i) In thin layer (a) Solid (b) Liquid (c) Gas (d) All of the	chromatography mobile phase is:		
UWO-424	40 6	125	UWO-42440	1 (Contd.)		

	The efficiency of separation in a chromatographic column gets increased as the no. of theoretical plates			UNITV			
			10.	. ,	Give the classific of applications.	ation of dyes on the basis	of mode 4
	(a) Decreases				Explain the prep	aration of picric acid dye.	4
	(b) Kept constants (c) Increases				Explain dye inter	mediates.	4
	(c) Increases(d) None of these		1		OR		
(iii)	Naphthalein-2-Sulphon acid is used to prepare:		11.	. (p)	Discuss:		
	(a) Aurine dye				(i) Acid dye		
	(b) β-naphthyl dye		1		(ii) Basic dye		4
	(c) Indigo dye		:	(q)	Discuss the prep	paration of Aurine dye.	4
	(d) Pieric acid dye			(r)	Give in details :		
(iv)	Auxochromes the int in dye.	ensity of colour			Chromophore a	nd Auxochrome.	4
	(a) Increases			2. (a)	UNIT—VI		
	(b) Decreases		12			ternative reaction condition	
	(c) Keep constant				product with ex		4
	(d) None of these			(b)		at of green solvents.	4
(C) Ans	swer in ONE sentence:	4		(c)	Discuss the goa	als of green chemistry.	4
(i)	Define indeterminate error. What is Chromophore ?					OR	
(ii)							
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		(iii) Give the names of any two ion exchangers	3.	
		(iv) Define ion exchange Chromatography.		
		UNIT—I		
2.	(a)	Discuss the sampling techniques of liquids.	4	
	(b)	Give an account of precision and accuracy.	4	
	(c)	What is meant by standard deviation? Explain brief.	in 4	
		OR		
3.	(p)	Discuss the sampling of solids.	4	
	(q)	Give an account of confidence limits.	4	
	(r)	Explain the sampling of gases.	4	
		UNIT—II		
4.	(a)	Discuss the technique of paper chromatography.	. 6	
	(b)	Write in brief principle, technique and uses of TLC.		
			6	
		OR		
5.	(p)	How GLC is superior over other chromatograph techniques? Explain.	nic 6	
	(q)	Give an account of HPLC technique and applications.	its 6	

3

(Contd.)

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UNIT-III

6.	(a)	State and explain the principle of colur				
		chromatography.	4			
	(b)	Give the applications of ion exchange chromatogra				
			4			
	(c)	Discuss the various factors affecting solvent extracti	on.			
	` ,		4			
OR						
7.	(p)	Explain the techniques of extraction.	4			
	(q)	Describe the experimental details of colu	mn			
	(1)	chromatography.	4			
	(r)	Give an account of ion exchange capacity.	4			
UNIT—IV						
8.	(a)	Describe the principle of IR Spectroscopy.	6			
	(b)	Explain the experimental techniques of fla	ame			
	` '	photometry.	6			
OR						
9.	(p)					
		are determined by using X-ray flouresce	nce			
		technique.				
	(q)	Discuss combustion flames in flame photometry	y. 6			
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