	(p)	SDS-PAGE	4						
	(q)	2-D Electrophoresis	4	AQ-664					
	(r)	Western Blotting	4						
6.	Wr	ite in brief about :	•	B.Sc. (Part-I) Semester-II Examination					
	(a)	Light absorption and its transmittance		2S: BIOCHEMISTRY (Biophysical and Biochemical Techniques) Time: Three Hours] [Maximum Marks: 80]					
	(b)	Beer's Lambert's law	4						
	(c)	Flame photometry	4						
	(0)		4	trians. 60					
	(-)	OR		Note :- ALL questions are compulsory and carry equal marks					
	(p)	Fluorometry	4	except Q. No. 1 which carries 8 marks.					
	(q)	ESR	4						
	(r)	Mass spectroscopy	4	1. (A) Fill in the blanks:					
7.	Wri	te in brief about :		 is the log of hydrogen ion concentration. 					
	(a)	Immunodiffusion	4	(ii) Paper chromatography is type of					
	(b)	RIA	4 .	chromatography.					
	(c)	PCR	4	(iii) Principle of Colorimetry obeys and					
		OR		law.					
	(p)	ELISA	4	(iv) In dialysis process is retained inside					
	(q)	Isotopic tracer technique	4	the bag from mixture of protein and electrolytes.					
	(r)	Autoradiography	4	(B) Give the correct alternative:					
		Stonesk is	• •						
		The Control of the Co	7	Prostate of plasma is .					
				(a) 80–100 Milliosmoles/Lit.					
				(b) 180–200 Milliosmoles/Lit.					
				(c) 280–300 Milliosmoles/Lit.					
UBS-49945				(d) 380–400 Milliosmoles/Lit.					
000-	72743	4	325	UBS 49945 1 (Contd.)					
	2								

(ii)) Water and electrolyte balance is regulated by : (a) Aldosterone			2.	Write in detail the principle and application Thermodynamics in Biochemistry.		eation of
i in	(b) Antidiuretic hormone (c) Renin-angiotensin system				OR What are Biological oxidation – reduction reac Add a note on redox potential.		eactions ?
E-F	(d) All of above			3.	Discuss the following:		
(iii)	Buffering action of haemoglobin is ma	inly due			(a) Water as biological	solvent ·	4
	to its:			4	(b) Weak acids and bu	ffers	4
	(a) Glutamine residues				(c) Physiological buffer	S CHEROLOGICA	4
	(b) Arginine residues					OR	
	(c) Histidine residues (d) Lysine residues				(p) Glass and reference	electrode	4
					(q) Singer and Nicolson	model of plasma me	mbrane 4
(iv)	pH of body fluids in maintained by:			4.	(r) Dialysis	· Salah Baharan	4
	a) Chemical buffer				Write in detail about pri	nciple, working and a	pplication 12
	(b) Respiratory system					OR	
	(c) Kidneys (d) All of above.	2			Discuss and describe Chromatography.	in detail about G	as Liquid
(C) Wr	e in ONE sentence only:			5.	Describe the following electrophoretic techniques :		
· (i)	What is chromatography?				(a) Agarose		. 4
(ii)	Acids are defined as.				(b) Paper Electrophore	sis	4
			2		(c) PAGE		4
(iii) (iv)	Free energy.	4	•2			OR	
	is Freehambellics HOF (III)				•		
UBS 49945	2	(Contd.)		UBS	S 49945	3	(Contd.)