QP Code: 212020

Second Year B.Sc Medical Biochemistry Degree Regular/Supplementary Examinations February 2023 Paper VII – Analytical Methods and Instrumentation (2016 Scheme)							
				Time: 3 hours Max			larks: 100
				•	aı A	Answer all questions to the point neatly and legibly • Do not leave any blank pages answers • Indicate the question number correctly for the answer in the margin spa Answer all parts of a single question together • Leave sufficient space between answ Draw table/diagrams/flow charts wherever necessary	ice
Lo	ng	g Essays:	(2x15=30)				
	1.	. Define Chromatography. Write in detail about principle, instrumentation an application of HPLC	nd				
	2.	. Define Electrophoresis. Write in detail about principle, technique, and app	lication of				
<b>.</b>		gel electrophoresis					
Sh		rt Essays:	(2x10=20)				
		. Describe the ELISA. Add a note on its application					
		. Describe radioisotopes and methods of measurement of radioactivity <b>rt Answers</b>	(6x5=30)				
511		. Radiation protection and disposal of radioactive wastes	(023-30)				
		. Cell fractionation and its applications					
		. Spectrophotometer vs. Colorimeter					
		. Density gradient centrifugation					
		. SDS PAGE and its applications					
	10	0. Atomic Absorption Spectrometry					
Comment on (10x			(10x2=20)				
	11	1.Deviations of Beer-Lambert's law					
		2.Monochromators					
		3.Affinity Chromatography					
		4.ISE and its applications					
		5. Biological hazards of radioactivity					
	-	6. Selection of filters					
		7. Turbidimetry					
		8. Capillary electrophoresis					
		9.Applications of radioactivity 0.Principle of Paper Chromatography					
	20	o. Findple of Faper Onionalography					

Reg. No.....

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