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## SARDAR PATEL UNIVERSITY

## B.Sc. (IV Semester) (Biochemistry) Examination 2016 11<sup>th</sup> April 2016 CMONDAY)

10.30 am - 1.30 pm

US04CBCH02 : Biophysical Biochemistry

Total Marks: 70

	MULTIPLE CHOICE QUESTIONS. ANSWER THE FOLLOWING
1.	Mercury vapour lamp in spectrometric analysis is an example of  a) detector b) monochromator c) photocell d) radiant energy source
3.	A] monochromator B] photocell C] cuvette D] working std.sol.
j	Another name of photovoltaic cell is
	A]pH indicators B] litmus paper C] pH meter D]pH strips is known as primary electrode A] calomal B] mercury C] glass D] platinum
4.	Range for Wavelength of UV-Visible Spectrometer is A] < 300 nm B] > 540 nmC] > 300 nm D] Between 200-780 nm
5.	A calomal B barrier layercell C Hg lamp D platinum wire
7.	Primary monochromater for fluro-spectrometry is A] U.V light B] green light C] Hg light D] white light In paper chromatography is a mobile phase. A] Sample B] Ninhydrin C] Solvent system D] Cellulose paper TLC require as adsorbent
	A] silica gel-G B] Ninhydrin C] silica gel D] Cellulose paper
	The value observed maximum time in a given data is
	Al graph Bl table Cl Median Dl Mean

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Q.2													
	Define –laws in colorimetric analysis												
	2. Explain –radiant energy sources.												
	3. What do you mean by entrance and exist slit												
	-l. Define - buffer and pH												
	5. Write Principle for pH meter												
	6. What are radioisotopes												
	7. Define: mobile phase and give one example to separate amino acid.												
	8. Give meaning for RF value.												
	9. What is location reagent.												
	10. What do yo	u mean	by freq	uency?									
	11. Define-SE	)											
	12. Write on da	ita											
	ATTEMPT THE FOLLOWING												4
).3	A]Draw labelled diagram for electrodes used to measure pH of buffer.												5
	BJexplain unit for radio activity											5	
							OR						
).3	A] Write note on application of radio isotopes. B]write note on- scintillation counter												5
<b>V</b> 4													5
),4	A Give block diagram of a spectro-fluro-meter and write on application B Give brief account on monochromatic devises in colorimeter.											5	
	and account on monochromatic devises in colorimeter.											5	
).4	Write a note	on:					)R						
	Write a note on:  A. Barrier layer cell												5
).š	B. Phot												5
čn:	A]Classify types of graph and explain each giving an example  OR										10		
7.5	A]Give formula to calculate Mode, Median and S.D. and Calculate Mode and Median for following data										1-0		
	Fasting Blood glucose of the patient is as under												
	Sr. No. of		12	13	4	T 5	6	1.7	10	To	40		7
	patient			]	-	3	6	7	8 *	9	10	11	
	Mg% cholesterol	180	156	170	180	200	210	220	180	320	180	200	