## 1804N252

Candidate's	Seat No	•
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## **B.Sc Semester-4 Examination**

#### CC 204

### Biochemistry

Time: 2-30 Hours]

April-2024

[Max. Marks : 70

# (ADVANCE TECHNIQUES)

Q1(a	List any 3 applications of electron microscope. Give any three differences between TEM and SEM	(08)
Q1(b	Define and give the formula for the following:	\ /
•	<ol> <li>Resolving power 2. Total Magnification&amp; Empty Magnification.</li> <li>Numerical aperture.</li> </ol>	(06)
Q1(a	Explain the principle and working and applications of fluorescent microscene	(0.0)
Q1(b	functions.	(08) (06)
Q2(a)		(08)
Q2(b)	) Discuss principle behind centrifugation	. ,
	OR	(06)
Q2(a)		(00
Q2(b)	Define Syedberg unit	(09 (05)
Q3(a)		(07)
Q3(b)	Write a note on autoradiography and its application	(07)
	OR	(07)
Q3(a)		(07)
Q3(b)	The state of the s	(07)
Q4(a)	List application of biostatistics	(07)
Q4(b)	Discuss merits and demerits of Mean, Median and Mode	(07)
	OR	(07)
Q4(a)	Egg laid by species of bird were counted as 5,7,8,10,14,12,13,5,8,8. Findout mean deviation of the distribution	(06)
Q4(b)	Explain: Normal distribution curve	(00)
Q5	ANSWER THE FOLLOWINGS(ANY SEVEN)	(08)
1	What is the role of paraffin oil in 100X lens?	14
2	What is the role of annular stopper in Dark field microscope?	
3	what is chromatic aberration & Spherical aberration	
4	List different types of rotors	
5	Name two gradient materials used in density gradient contributes	
6	Define: 1.RMP 2.RCF	
7	What is the unit of radioactivity? Define	
8	List two hazards of radioisotopes	
9	Define: Radioactivity decay	
10	Define standard deviation(SD). Write the formula to calculate SD	
	in the the formula to calculate SD	

