

GIET UNIVERSITY, GUNUPUR – 765022

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	RD19MSC028
	Roll No:
,	Total Number of Pages: 1 AR-19 M.SC
	M.Sc 1 ST SEMESTER REGULAR EXAMINATIONS, NOV/DEC 2019-20 BTPC103-BIOPHYSICAL TECHNIQUES
	Time: 3 Hours Max Marks: 80
	The figures in the right hand margin indicate marks.
Λ 1	SECTION A Answer any four of the following: [4 X4 = 16]
a	Discuss the principles of Light Microscopy
b	Geiger-Muller Counter
c	Beers-Lamberts Law
d	PCR cycles
e	Western Blot
f	Applications of Analytical Centrifuge
	OR
2 . <i>A</i>	Answer all questions from the following $[2 \times 8 = 16]$
a	
b	
c	Applications of X-ray Crystallography
d	
e	Applications of PCR in Crime detection
f	
g	
h	
3 /	SECTION-B Answer all Questions: [16 x4 =64]
a. 1	Discuss the principles, instrumentation and application of Scanning Electron Microscope?
	OR
b	What are different types of Centrifuge? Discuss general principles and applications
4.	
a	What are the Laws associated with Spectrophotometry? Discuss the instrumentation and advantage of Spectrophotometer over colorimeter OR
b	How the Radioactivity is measured? Discuss with suitable diagram and examples
5.	
a	
	OR
b	Discuss the principles, instrumentation and applications of HPLC
6. a	What is Electrophoresis? Give detailed illustration of PAGE
а	OR
b	
J	with suitable diagrams