QP	Code: 213019	Reg. No
Second Year B.Sc Medical Microbiology Degree Regular/Supplementary Examinations April 2023		
Paper VIII – Methodology and Instrumentation		
(2016 Scheme)		
Tim	ne: 3 hrs	Max Marks: 100
•	Answer all questions to the point neatly and legib answers • Indicate the question number correct Answer all parts of a single question together • Legister • Legiste	tly for the answer in the margin space
Lor	Draw Diagrams wherever necessary ng Essays	(2x15=30)
1.	Discuss in detail about the principle, working a electron microscope.	and applications of different types of
	Discuss in detail about the principle, methodol ort Essays	ogy and applications of PAGE. (2x10=20)
3.	Atomic absorption spectrophotometer.	
4.	Biological safety cabinets.	
Sho	ort Answers	(6x5=30)
5.	Anaerobic cultivation apparatus	
6.	Isopycnic centrifugation	
7.	Different types of rotors	
8.	HPLC	
9.	Principle and application of colorimetry	
10	.Gas liquid chromatography	
Comment on (10x2=20)		
11	.Sterilization control in an autoclave	
12	.HEPA filters	
13	Resolving power in a microscope	
14	.Shadow casting	
15	.Hot air oven	
16	.Flame photometer	
17	.Electromagnetic spectrum	

18.ELISA

19. Sub-cellular fractionation