LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034 M.Sc. DEGREE EXAMINATION – ZOOLOGY SECOND SEMESTER – APRIL 2016 ZO 2958 – BIOPHYSICS & RADIATION BIOLOGY			
		Date: 27-04-2016 Dept. No.	Max. : 100 Marks
		Time: 01:00-04:00	Maa 100 martie
		PART - A	(10 ×2 = 20 Marks)
Answer ALL the questions.			
1. Write a short note on refractive index.			
2. What is MRI scan?			
3 Define ploidy.			
4 Differentiate viscosity and surface tension.			
5 Comment on zero mobility of ions.			
6 Define refractive index.			
7 Differentiate SEM and TEM.			
8 What is diffusion?			
<ul><li>9 Explain the process of haemolysis.</li><li>10 What is Cilder land</li></ul>			
10 What is Gibb's law?			
PART – B	(4 × 10 = 40 Marks)		
Answer any FOUR of the following	× ·		
11 Write a paragraph on immuno electrophoresis.			
12 Write a note on auto radiography.			
13 NMR and its significance.			
14 Give an account of mutations and explain its impact.			
15 What are the uses of X-rays?			
16 Give an account of GM counter and elaborate its significance.			
PART – C	(2 × 20 = 40 Marks)		
Answer any <b>TWO</b> of the following	× ·		
17 a) Distinguish TLC and HPLC.			
b) Give an account of HPLC.			
18 Define cancer and elaborate the cancer biology and its significant	nce.		
19 Discuss LASER techniques and its applications.			

20 Write an essay on microscopy and its significance in Biology.

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