LOYOLA C	OLLEGE (AUTONOMC	DUS), CHENNAI – 600 034
Lace 2000	I.Sc. DEGREE EXAMINAT	TION – ZOOLOGY
SECOND SEMESTER – APRIL 2015		
ZO 2958 - BIOPHYSICS & RADIATION BIOLOGY		
WICEAT LUX VESTRA		
Date : 23/04/2015 Time : 01:00-04:00	Dept. No.	Max. : 100 Marks
	Part-A	
Answer ALL the questions (10×2=20 Marks)		
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1. What is polyploidy ?		
2. Differentiate viscosity from surface tension.		
3. Define refractive index.		
4. Differentiate osmosis from diffusion.		
5. Comment on colchicine.		
6. What is Gibb's free energy?		
7. What is haemolysis?		
8. Differentiate SEM from TEM.		
9. Comment on Zwitter ion effect.		
10. What is MRI scan?		
Part-B		
Answer any FOUR ques	tions	(4×10=40 Marks)
11. Explain LASER and its applications.		
12. Write notes on NMR and its significance.		
13. Give an account of GM counter.		
14. Explain crystallography.		
15. What are the uses of X-rays?		
16. Write notes on laws of osmosis.		
Part-C		
Answer any TWO quest	ions	(2×20=40 Marks)
17. Give an account on electrophoresis.		
18. Write an essay on radiation and cancer.		
19. Explain TLC and HPLC.		
20. Write an essay on microscopy and its significance in Biology.		

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