 LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**M.Sc.** DEGREE EXAMINATION - **ZOOLOGY**

SECOND SEMESTER – APRIL 2012

# ZO 2815 - BIOPHYSICS

Date : 19-04-2012 Dept. No. Max. : 100 Marks

Time : 9:00 - 12:00

**PART – A**

**ALL the questions:                                                                                        (10x2=20)**

 1. Distinguish Centripetal force from Centrifugal force.

 2. What are isotopes?

 3. Define Cyclosis and Osmosis.

 4. What is Zero mobility?

 5. Comment on G rays.

 6. Define Refractive index of a microscope.

 7. Write a short note on NMR.

 8. Explain Turgor pressure.

 9. Give any two biological applications of X rays.

10. Elaborate Optical Rotatory Dispersion.

**PART – B**

**Answer any FOUR questions:                                                                                    (4x10=40)**

11. Explain Viscosity.

12. Write a brief note on TEM.

13. Give short notes about Circular Paper Chromotography.

14. Explain the Medical and Biological uses of X rays.

15. Geiger Muller Counter – Explain.

16. Write in detail about Colorimeter.

**PART – C**

**Answer any TWO questions:                                                                             (2x20=40)**

17. Explain the evolution of Electrophoresis.

18. State the Laws of Thermodynamics and explain them.

19. Discuss osmosis.

20. Explain centrifugation in detail.

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