

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

SECOND SEMESTER – APRIL 2010

ZO 2814 / 2808 - CELL AND MOLECULAR BIOLOGY

Date & Time: 16/04/2010 / 1:00 - 4:00

Dept. No.

Max. : 100 Marks

PART – A

Answer **ALL** the questions.

10 x 2 = 20 Marks

1. What is Apoptosis?
2. Comment on mutator phenotype.
3. Define bacterial infection.
4. Differentiate excitation from photoproducts.
5. What is Idiogram?
6. Comment on Wobble hypothesis.
7. Explain Okasaki fragments.
8. Differentiate benign and malignant tumour.
9. Define nucleocytoplasmic index.
10. List out the classifications of Lysosomal enzymes.

PART – B

Answer any **FOUR** questions.

4 x 10 = 40 Marks

11. Write notes on DNA repair and hereditary cancer.
12. Explain the theories of Aging.
13. Give an account on Transduction.
14. Describe the organization of chromosome.
15. Explain genes in pedigree.
16. Write notes on Human genome Project.

PART – C

Answer any **TWO** questions.

2 x 20 = 40 Marks

17. Write an essay on genes and cancer.
18. Give an account on DNA finger printing.
19. Explain Lac Operon Hypothesis.
20. Give an account on Genetic code.
