



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FIRST SEMESTER – APRIL 2014

ZO 1821/1815 - ADVANCED EVOLUTIONARY BIOLOGY

Date : 04/04/2014

Dept. No.

Max. : 100 Marks

Time : 09:00-12:00

PART – A

Answer **ALL** the Questions

10×2 = 20 Marks

1. Comment on cosmozoic theory.
2. Mention the contribution of Cuvier.
3. Big Bang theory is a tenable hypothesis. Justify.
4. Mention the important events of Mesozoic era.
5. Differentiate Batesian mimicry from Mullerian mimicry.
6. State the law of adaptive radiation.
7. What is evolutionary constancy?
8. Differentiate convergence from parallelism.
9. Comment on Neanderthal man.
10. Define eugenics.

PART – B

Answer any **FOUR** of the following

4×10 = 40 Marks

11. Write notes on evolution of eukaryotes.
12. Explain the evolutionary significance of point mutation.
13. Categorize the fossil records.
14. Write notes on animal colouration.
15. Explain pre-adaptation.
16. Describe man and natural selection.

PART- C

Answer any **TWO** of the following

2×20 = 40 Marks

17. Discuss the role of isolating mechanism in speciation.
18. Write an essay on genetic polymorphism.
19. Elaborate the recent concepts of recapitulation theory.
20. Write notes on dating of fossils and neo-Lamarckism.
