

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

THIRD SEMESTER – APRIL 2016

AZ 3506/AZ 3502 – ENVIRONMENTAL BIOLOGY

Date: 02-05-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART – A

Answer ALL questions, each in a few words

10 × 2 = 20 marks

01. Define “environmental biology”.
02. What is nitrification?
03. Define commensalism. Mention one example with explanation.
04. The population density of Chennai is 26903/km² – explain.
05. What is edge effect?
06. Explain pyramid of biomass.
07. Differentiate between aestivation and hibernation.
08. What is an indicator species?
09. Define adaptation.
10. What is a green house?

PART B

Answer any FOUR questions, each in about two pages

4 × 10 = 40 marks

11. Describe briefly the nitrogen cycle with the help of a flow-chart.
12. Explain with examples antagonism and antibiosis in animal interaction.
13. Define an ecosystem. Comment on the components of an ecosystem.
14. Briefly explain the biological effects of ozone depletion.
15. Explain how light and pressure affect living organism.
16. Write a brief note on any four wildlife sanctuaries in Tamilnadu.

PART C

Answer any TWO questions, each in about 4 pages

2 × 20 = 40 marks

17. Write explanatory notes on: (i) National Parks; (ii) Phosphorous cycle.
18. Write an essay on environmental pollution.
19. Explain the various attributes of an animal population.
20. Write an essay on adaptations of animals to different habitats.

\$\$\$\$\$\$