

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**



**B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY**

**THIRD SEMESTER – NOVEMBER 2016**

**AZ 3506/AZ 3502 – ENVIRONMENTAL BIOLOGY**

Date: 04-11-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

**PART – A**

Answer ALL the questions:

(10x2=20)

Define / Explain

1. Autecology
2. Synecology
3. Population density
4. Mortality
5. Niche
6. Ecotone
7. Estuary
8. Pelagic adaptation
9. National parks.
10. Afforestation

**PART – B**

Answer any FOUR of the following:

(4x10=40)

11. Describe the nitrogen and carbon biogeochemical cycle.
12. Explain the natality and population growth curves.
13. Describe the ecological succession with example.
14. Explain the deep sea and desert adaptations of animals.
15. Explain the inter-tidal and rocky shore adaptation of animals.
16. Describe the non-renewable resources.

**PART – C**

Answer any TWO of the following:

(2x20=40)

17. Discuss temperature as an environmental factor and its adaptation.
18. Describe the various inter-specific animal relationships with suitable example.
19. Describe the energy flow in ecosystem and explain the various types of ecological pyramids.
20. Give an account on water pollutions and methods of control.

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