

**M.Sc. DEGREE I SEMESTER EXAMINATION IN ENVIRONMENTAL TECHNOLOGY,
NOVEMBER 2007**

ENV/ENB 2103 ENVIRONMENTAL BIOLOGY

Time: 3 Hours

Maximum marks : 50

I Write very brief notes on any six of the following. Each question carries two marks
6x2 = 12 Marks

1. Poikilotherm
2. Photoperoidism
3. Attributes of food web
4. Logistic population growth
5. Edge effect
6. Adaptations of mangroves
7. Pollution due to particulate matter
8. Age pyramids

II Answer any six questions in the following. Each question carries three marks
6x3 = 18 Marks

9. What is meant by biotic potential?
10. How does specific heat of water help the plant life ?
11. Write short notes on ecological guilds.
12. Write notes on soil organisms.
13. How does temperature affect the distribution of animals ?
14. Explain mutualism giving examples.
15. What are the factors that result in soil degradation?
16. What is Gause's principle regarding the competition among organisms ?

III Answer any two questions of the following. Each question carries five marks.
2x5 = 10 Marks

17. What is meant by chaparral and sclerophyllous wood lands ? Give examples.
18. Distinguish between S-shaped and J-shaped growth forms.
19. Explain briefly on ecological levels of organization hierarchy.
20. What is meant by a biological control over a population ?

IV Answer an essay on any one of the following. Each question carries ten marks
1x10 = 10 Marks

21. Write an essay on community properties.
22. What is an estuary ? Write an account on the productivity of an estuarine ecosystem.
23. Write an essay on depletion of stratospheric ozone and its impacts on biosphere. Comment on the measure to control thinning of ozone layer.