

Sixth Semester B.Sc. Degree Examination, April/May 2019

(CBCS Scheme)

Zoology

Paper VIII — ENVIRONMENTAL BIOLOGY AND ETHOLOGY

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates : Draw neat labelled diagrams wherever necessary.

PART – A

- I. Answer any **TEN** of the following : **(10 × 2 = 20)**
1. What is autecology?
 2. Explain microhabitat.
 3. Define homeothermy.
 4. What is proto co-operation?
 5. Write a note on natality.
 6. What is solid waste management?
 7. Briefly explain toxicology.
 8. What are the causes of ozone layer depletion?
 9. What is threatened species? Give an example.
 10. List the aims and objectives of ethology.
 11. What is Kinesis?
 12. Write a note on acquired behaviour.

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PART – B

II. Answer any **SIX** of the following.

(6 × 5 = 30)

13. What is food chain? Explain grazing food chain with an example.
14. Explain antibiosis with suitable example.
15. Give an account of deep sea adaptations in fishes.
16. Briefly explain biotic potential.
17. Write a note on global warming and its effects.
18. Explain biosphere reserves.
19. Describe instinctive behaviour with suitable example.
20. Explain trial and error learning.

PART – C

III. Answer any **FOUR** of the following.

(4 × 10 = 40)

21. Describe thermal stratification in lake during summer and winter.
 22. State laws of thermodynamics. Explain how they are being followed in the ecosystem.
 23. Explain causes, ecological effects and control measures of air pollution.
 24. List the toxic effects of arsenic and cadmium on human health.
 25. Explain the role of light and odour in animal communication.
 26. Describe social organization in primates.
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