

Reg. No. :

Name :

Sixth Semester B.Sc. Degree Examination, April 2023

First Degree Programme under CBCSS

Zoology

Core Course X

ZO 1642 : ECOLOGY, ETHOLOGY, EVOLUTION AND ZOOGEOGRAPHY

(2015-2018 Admission)

Time : 3 Hours

Max. Marks : 80

1. Answer the following questions in **one** or **two** sentences.

1. Recycle Index.
2. Imprinting.
3. Releaser pheromone.
4. Weber's line.
5. Bipolar distribution.
6. Biological clock.
7. Bombykol.
8. Genetic drift.
9. Allopatric speciation.
10. Neutral mutation.

(10 × 1 = 10 Marks)

P.T.O.

II. Answer any **eight** of the following questions not to exceed one paragraph. Each question carries **2** marks.

11. Ecotone and edge effect.
12. National parks.
13. Altruism.
14. Lorenz model.
15. Habituation.
16. Lamarckism.
17. Biological species.
18. Disruptive selection.
19. Oriental region.
20. Barriers affecting animal distribution.
21. Wallacea.
22. Continental Islands.

(8 × 2 = 16 Marks)

III. Answer any **six** of the following questions not to exceed **120** words. Each carries **4** marks.

23. Explain bioremediation.
24. Explain the importance of mangroves in coastal ecosystem.
25. Write a note on conditioned reflex.
26. Explain the importance of Brain in behaviour.

27. What are the basic features of societies?
28. What are the factors affecting Hardy-Weinberg equilibrium?
29. Write notes on Darwin's finches.
30. Give the bio geographical regions of India.
31. What are the barriers affecting animal distribution?

(6 × 4 = 24 Marks)

IV. Answer any **two** of the following questions. **Each** question carries **15** marks.

32. Write an essay on the characteristics of population.
33. What are biogeochemical cycles? Explain carbon cycle.
34. Explain isolation and isolating mechanisms.
35. Explain the trends in Human evolution.

(2 × 15 = 30 Marks)