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N – 1370

Reg. No. :

Name :

Sixth Semester B.Sc. Degree Examination, April 2022

First Degree Programme Under CBCSS

Zoology

Core Course XI

ZO 1643 – ECOLOGY, ETHOLOGY, EVOLUTION AND ZOOGEOGRAPHY

(2014 Admission)

Time : 3 Hours

Max. Marks : 80

I. Answer **all** the questions in one or two sentences. Each question carries **1** mark.

1. Saprotrophs.
2. Lithosphere.
3. S-Shaped Curve.
4. Darwin's Finches.
5. Cladogenesis.
6. Fossil Dating.
7. Cultural Evolution.
8. Isolated Distribution.
9. Imprinting.
10. Pheromones.

(10 × 1 = 10 Marks)

P.T.O.

II. Answer **any eight** of the following. Each question carries **2** marks.

11. Oceanic and Continental Islands.
12. Barriers to Animal Distribution.
13. Fossil men.
14. Gradualism v/s punctuated equilibrium.
15. Isolation and isolating mechanisms.
16. Biological Timescale.
17. Social groups in mammals.
18. Role of Hypothalamus in Behaviour.
19. Microbes and Waste management.
20. Carbon Trading.
21. Mangroves and Coastal Ecosystems.
22. Ecological Indicators.

(8 × 2 = 16 Marks)

III. Answer **any six** of the following. Each question carries **4** marks.

23. Mention the salient features of Leibig's law of Minimum.
24. Explain Environmental Resistance and Carrying Capacity.
25. Give a short note on Radiation Accidents.
26. Briefly mention the types of Learning.
27. Explain Deutsch's model of Motivation.

28. What is Hardy-Weinberg Law?
29. Write a short account on *Biston betularia*.
30. Give the zoogeographical features of Oriental Realm.
31. Describe the types of Geographical Distribution in animals.

(6 × 4 = 24 Marks)

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

32. Write an essay on the Genetic basis of Evolution.
33. Explain Speciation, mentioning the types, citing relevant examples for each.
34. Describe the History and Scope of Ethology.
35. List the Biotechnological methods in Pollution detection and abatement.

(2 × 15 =30 Marks)
