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L – 1640

Reg. No. : .....

Name : .....

**Sixth Semester B.Sc. Degree Examination, March 2021**

**First Degree Programme Under CBCSS**

**Zoology**

**Core Course X**

**ZO 1642 — ECOLOGY, ETHOLOGY EVOLUTION AND ZOOGEOGRAPHY**

**(2015 – 2017 Admission)**

Time : 3 Hours

Max. Marks : 80

**SECTION – A**

I. Answer the following questions (In **one** or **two** sentences. **1** mark each).

1. Bird continent
2. Pampas
3. IUCN
4. Sanctuary
5. Ecotone
6. Mutation theory
7. Lithosphere
8. Ramapithecus
9. Kyoto protocol
10. Biodegradation

**(10 × 1 = 10 Marks)**

P.T.O.

SECTION – B

II. Answer **any eight** of the following (Not to exceed **one** paragraph. **Each** carries **2** marks).

11. Hybridisation
12. Green peace
13. Limiting factors
14. Red data bank
15. Recycle index
16. Hydrosphere
17. Natality
18. Ionising radiation
19. Gene frequency
20. Wallace line
21. Allopatric speciation
22. Imprinting

**(8 × 2 = 16 Marks)**

SECTION – C

III. Answer **any six** of the following (Not to exceed **120** words. **Each** carries **4** marks).

23. Give the physical features and fauna of Oriental region.
24. Write notes on Habituation and Sensitization.
25. Differentiate between bipolar and isolated distribution.

26. Write a note on the importance of mangroves in the coastal ecosystem.
27. Write an account on Biodiversity hotspots.
28. Explain the theories of Lamarckism.
29. Give an account on dating of fossils.
30. Write notes on the importance of *Biston betularia*.
31. Write notes on social groups in mammals.

(6 × 4 = 24 Marks)

SECTION – D

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

32. Write an essay on pheromones, hormones and their action on behaviour.
33. Write an essay on Biotic and abiotic environmental factors.
34. Write an essay on the importance of Western Ghats.
35. Write an essay on Darwinian concepts of evolution.

(2 × 15 = 30 Marks)