Reg. No. : .....

Name : .....

Sixth Semester B.Sc. Degree Examination, March 2020

First Degree Programme under CBCSS

Core Course X

ZO1642 – ECOLOGY, ETHOLOGY EVOLUTION AND ZOOGEOGRAPHY

(2015 Admission onwards)

Time : 3 Hours Max. Marks 80

I. Answer the following questions in **one** or **two** sentences. **One** mark each.

1. Gene pool
2. IUCN
3. Oceanic islands
4. Territoriality
5. Ecotone
6. Mortality
7. Lithosphere
8. Name the Bird continent
9. Cromagnon man
10. Bioremediation.

(10 × 1 = 10 Marks)

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

11. Write a note on RAMSAR SITES in Kerala. Mention the different sites.

12. Green peace.

13. Biopesticides

14. Red data bank

15. Allopatric speciation

16. Imprinting

17. Shellfor's law of tolerance

18. Explain Lamarck's theories

19. Cosmopolitan distribution

20. Organic farming

21. Genetic drift

22. Aestivation

(8 × 2 = 16 Marks)

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

23. Explain Hardy-Weinberg equilibrium.

24. Differentiate between National Parks and Sanctuaries.

25. Explain the criticism of Darwin's Natural selection.

26. Give Konrad Lorenz's contributions in Ethology.

27. Describe the factors affecting animal distribution.

28. Explain the importance of Western Ghats.

29. Give an account on dating of fossils.

30. Describe about J and S shaped curves.

31. Write a note on the importance of mangroves in the coastal ecosystem.

(6 × 4 = 24 Marks)

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

32. Describe the adaptive radiation shown by Darwin's finches.

33. Write an essay on pheromones, hormones and their action on behaviour.

34. Compare the fauna of Neartic and Neotropical regions.

35. Write an essay on Wetlands and their conservation measures.

(2 × 15 = 30 Marks)
