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L – 1641

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

(2018 Admission Regular)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer the following questions (in one or two sentences. 1 mark each)

1. Allopatric speciation.
2. Hybridization.
3. Conditioned reflex.
4. Green peace.
5. Phototrophs
6. Liebig's law of minimum.
7. Latent learning.
8. Biosphere reserves.
9. Birds continent.
10. Desertification.

(10 × 1 = 10 Marks)

P.T.O.

SECTION – B

Answer **any eight** of the following (not to exceed one paragraph. each carries 2 marks)

11. S shaped curve.
12. Bipolar distribution.
13. Social stress.
14. Green chemistry.
15. Weisman's germplasm theory.
16. Oceanic island.
17. Continuous distribution.
18. Combined concept of limiting factors.
19. Phagotrophs.
20. Mortality.
21. Insular fauna.
22. Shelford's law of tolerance.
23. Aestivation.
24. Extinct.
25. Lining fossils.
26. Pedology.

(8 × 2 = 16 Marks)

SECTION – C

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

27. Write a note on human pheromones.
28. Describe the merits and demerits of social groups.
29. Describe the technique of fossil dating and its significance.
30. Explain Hardy-Weinberg law with example.
31. Mention the contribution of Wallace.
32. Describe the theories of Darwin.
33. Explain the barriers to animal distribution.
34. Describe the biotechnological methods of pollution detection.
35. Explain the carbon cycle
36. Explain the periods of mesozoic era.
37. Describe the importance of connecting link.
38. Describe the regions and fauna of oriental realm.

(6 × 4 = 24 Marks)

SECTION – D

Answer **any two** of the following (each carries **15** marks)

39. Write an essay on Biogeochemical cycles.
40. Write an essay on pheromones, hormones and their action on behavior.
41. Describe the Biogeographical classification of India.

42. Describe the evolution of man.
43. Write an essay on the mangroves in coastal ecosystems.
44. Explain the adaptive radiations in finches.

(2 × 15 = 30 Marks)