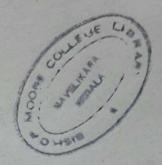
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L - 1641

Reg. No.:

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.

 $(10 \times 1 = 10 \text{ Marks})$

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.

 $(8 \times 2 = 16 \text{ Marks})$

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.

 $(6 \times 4 = 24 \text{ Marks})$

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.

 $(2 \times 15 = 30 \text{ Marks})$