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T – 1683

Reg. No. :

Name :

Sixth Semester B.Sc. Degree Examination, April 2024

First Degree Programme under CBCSS

Zoology

Core Course

ZO1643 – ETHOLOGY, EVOLUTION AND ZOOGEOGRAPHY

(2019 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

- I. Answer the following questions (in **one** or **two** sentences. 1 mark each)
1. Gene frequency.
 2. Unconditional reflex.
 3. Co-evolution.
 4. Colour vision.
 5. Realms.
 6. Kairomones.
 7. Western Ghats.
 8. Neanderthal.
 9. Social Stress.
 10. Phototaxis.

(10 × 1 = 10 Marks)

P.T.O.

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

11. Territoriality.
12. Mutation theory.
13. Darwin finches.
14. Scent markings.
15. Ethiopian region.
16. Neutral theory.
17. Stridulation in insect.
18. Dating of fossils.
19. Hardy-weinberg law.
20. Courtship behaviour.
21. Models of motivation.
22. Biological barriers.

(8 × 2 = 16 Marks)

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

23. Write note on paleontological evidences of evolution.
24. Briefly elaborate types of animal distribution.
25. Comment on factors affecting genetic equilibrium.
26. Write note on role of sound as a communication system in deep animals.

27. Elaborate the role of hypothalamus in animal behaviour.
28. Write note on Geological time scale.
29. Comment on pheromones in pest management.
30. Briefly Explain the physiology of bioluminescence.
31. Give note on properties of organised societies in animals.

(6 × 4 = 24 Marks)

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

32. Write an essay on chemical communication in animals.
33. Give an account on current understanding on human evolution.
34. Briefly elaborate the theories of organic evolution.
35. Describe briefly on types of learning in animals.

(2 × 15 = 30 Marks)