

E 2948

(Pages : 2)

Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, APRIL 2022

Fifth Semester

Core Course—EVOLUTION, ZOOGEOGRAPHY AND ETHOLOGY

(Common for B.Sc Zoology Model I, Model II, B.Sc Industrial Microbiology and Zoology)

[2013–2016 Admissions]

Time : Three Hours

Maximum Marks : 60

Part A

Answer all questions.

Each question carries 1 mark.

1. Cosmopolitan distribution.
2. Latent learning.
3. Semi species.
4. Coacervates..
5. Biogenetic law.
6. Sibling species.
7. Fossil dating.
8. Macroevolution.

(8 × 1 = 8)

Part B

Answer any six questions.

Answer in one paragraph each.

Each question carries 2 marks.

9. Write notes on the coast zone ecosystems of India.
10. Define Photoperiodism.
11. What is adaptive radiation?
12. Explain the taxonomical evidences of organic evolution.
13. What are pheromones?
14. What is bipolar distribution?
15. Differentiate between sympatric and allopatric speciation.

Turn over

16. Write notes on simple reflexes and instincts.
17. Define Wallace line.
18. Define dominance and competition.

(6 × 2 = 12)

Part C

*Answer any four questions.
Answer in one page each.
Each question carries 4 marks.*

19. Explain Urey-Miller experiment.
20. Write an account on insular fauna.
21. What is geological time scale? Explain.
22. Explain germplasm theory.
23. Explain the characteristics of Ethiopian realm.
24. Explain the factors affecting gene frequencies.

(4 × 4 = 16)

Part D

*Answer any two questions.
Answer should not exceed four pages.
Each question carries 12 marks.*

25. Write an essay on evolution of horse.
26. Explain the factors affecting animal distribution.
27. Write an essay on Darwinism and its critical analysis.
28. Compare different types of speciation occurring in a population.

(2 × 12 = 24)