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18/11/2024-

TM241621R

Reg. No :

Name :

MASTER'S DEGREE (C.S.S) EXAMINATION, NOVEMBER 2024

2024 ADMISSIONS REGULAR

SEMESTER I - CORE COURSE ZOOLOGY

ZO1C02TM20 - Evolutionary Biology and Ethology

Time : 3 Hours

Maximum Weight : 30

Part A

I. Answer any Eight questions. Each question carries 1 weight

(8x1=8)

1. Comment on RNA world.
2. "Coacervates represent poor models of protocells". Substantiate the statement.
3. Illustrate the major aspects of quantum speciation.
4. Explain parapatric speciation.
5. Comment on golden age of reptiles.
6. List out the major features of cambrian and silurian period.
7. Write a note on ritualization.
8. Differentiate between open and closed IRM.
9. Explain cooperation exhibited by animals.
10. Write a note on inclusive fitness.

Part B

II. Answer any Six questions. Each question carries 2 weight

(6x2=12)

11. Write an account on punctuated equilibrium.
12. Elaborate on endosymbiotic theory.
13. Define biological species concept. Add notes on subdivisions of species.
14. Explain the idea of co-evolution.
15. Explain five major mass extinctions and its consequences.
16. Describe dance language of Honey bees.
17. Differentiate between intrasexual and intersexual selection used in reproduction.
18. Write a brief account on foraging behaviour.

Part C

III. Answer any Two questions. Each question carries 5 weight

(2x5=10)

19. Write an essay on evolutionary significance of Darwinism.
20. Explain the evolution of primates with special mention to stages in primate evolution.
21. Write an essay on pheromonal communication.
22. Discuss briefly on parental care and investment.