Reg. No. : ....

Name : ....

IV Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/ Improvement) Examination, April 2024
(2020 to 2022 Admissions)
General Awareness Course in Life Sciences (Zoology) and Computational Biology
4A13ZCB : EVOLUTION

Time : 3 Hours

Max. Marks : 40

PART – A

Write about **each** of the following in **2** or **3** sentences. **Each** question carries **1** mark. **(6×1=6)**

1. What is meant by punctuated equilibrium ?

2. What are coacervates ?

3. Panspermia theory.

4. What are vestigial organs ? Give one example.

5. What is hybrid inviability ?

6. What is C-Value Paradox ?

PART – B

Explain about **any six** of the following. **Each** question carries **2** marks. **(6×2=12)**

7. Differentiate between micro and macro evolution.

8. Write notes on mimicry.

9. What is meant by fossil dating ? Write on major fossil dating method.

10. Write notes on Weisman's germplasm theory.

11. Write notes on Geological time scale.

12. Write down the concept of neutral theory of molecular evolution.

13. Distinguish between homology and analogy.

14. Write notes on taxonomic species concept.

PART – C

Write short essay on **any four** of the following. **Each** question carries **3** marks. **(4×3=12)**

15. Explain the reproductive isolation and its different types.

16. Discuss the methods and mechanism of speciation.

17. Explain the theory of genetic drift.

18. Describe the biochemical and embryological evidences of organic evolution.

19. Write down the faunal characters of Mesozoic era.

20. Explain Darwin theory of natural selection.

PART – D

Write essay on **any two** of the following. **Each** question carries **5** marks. **(2×5=10)**

21. Discuss the biochemical origin of life.

22. Write an essay on evolutionary trends in modern man.

23. Write an essay on Hardy Weinberg Equilibrium and different factors affecting Hardy Weinberg equilibrium.

24. Explain convergent and divergent evolution with suitable example. Add a note on Darwin Finchess.

_____