



K25U 0956

Reg. No. :

Name :

**IV Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/
Improvement) Examination, April 2025
(2020 to 2023 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. Endosymbiosis
2. Neo-Lamarckism
3. Fossilization
4. Genetic drift
5. Name any two fossil ancestors of modern man.
6. Big Bang Theory of evolution.

PART – B

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

7. Write short notes on fossil dating.
8. C value paradox.
9. Explain Hardy-Weinberg law.
10. Who proposed Mutation Theory, what is its key concept ?

P.T.O.



11. What is Abiogenesis and how it differ from biogenesis ?
12. What is co-evolution ? Mention how does it occurs.
13. Distinguish Micro and Macro evolution.
14. What is the concept of the selfish gene and how does it explain evolutionary behavior ?

PART – C

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

15. What is kin selection and how does it influence evolutionary behavior ?
16. Differentiate between Batesian mimicry and Mullerian mimicry with examples.
17. Explain the key concept of Haldane-Oparin theory with its significance.
18. How did amphibians evolve and what are the adaptations that helped them transition from water to land ?
19. Write short notes on Darwin's finches provide evidence for natural selection.
20. Explain Lamarck's theory and its criticism.

PART – D

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

21. Describe the modern ideas on the origin of life and how do the Naked Gene Hypothesis and RNA World Theory contribute to these explanations.
 22. What is species concept ? What are the different types of species concepts used in biological classification ?
 23. Write an essay on Miller-Urey experiment with experimental setup.
 24. Briefly explain the contributions of Alfred Russel Wallace.
-