



K23U 1156

Reg. No. :

Name :

**IV Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, April 2023**

(2020 Admission Onwards)

**GENERAL AWARENESS COURSE IN LIFE SCIENCES (ZOOLOGY) AND
COMPUTATIONAL BIOLOGY**

4A13ZCB : Evolution

Time : 3 Hours

Max. Marks : 40

PART – A

Answer **all** questions. **Each** question carries **1** mark.

(6×1=6)

1. Define endosymbiosis.
2. What is biogenesis ?
3. What do you mean by speciation ?
4. Define Hardy-Weinberg equilibrium.
5. What are selfish genes ?
6. What is a molecular clock ?

PART – B

Answer **any 6** of the following questions. **Each** question carries **2** marks. **(6×2=12)**

7. What is germplasm theory ?
8. What is Molecular Phylogeny ?
9. What is Convergent Evaluation ?
10. What is Neo Darwinism ?

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11. What is Fossilization ?
12. What is Co-evolution and give an example ?
13. Hugo Devries Mutation Theory.
14. Write down Weisman Germplasm Theory.

PART – C

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

15. List out the modern concept of Evolutionary Forces.
16. Write briefly about Lamarck's theory and criticism.
17. Describe briefly on evaluation of Man.
18. Write a short note on Molecular Evolution.
19. Explain the fossil dating and give an account of its significance.
20. Explain the key differences between Batesian Mimicry and Mullerian Mimicry with examples.

PART – D

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

21. Give a detailed account of organic theories of evolution.
 22. Discuss the nature of evolution.
 23. Write an essay on Darwinism and Lamarckism. Give an account of its criticism.
 24. Explain Haldane and Oparin theory and Miller – Urey Experiments.
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