



**K22U 3775**

Reg. No. : .....

Name : .....

**Third Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/  
Improvement) Examination, November 2022  
(2020 Admission Onwards)  
General Awareness Course in Life Sciences (Zoology) and Computational  
Biology  
3A11ZCB – CELL BIOLOGY AND GENETICS**

Max. Marks : 40

Time : 3 Hours

**PART – A  
(Short Answer)**

**(6×1=6)**

Answer **all** questions.

1. Lysosome.
2. Test cross.
3. Microfilaments.
4. Define Telophase.
5. Carcinogen.
6. Centromere.

**PART – B  
(Short Essay)**

**(6×2=12)**

Answer **any 6** questions.

7. Genetic linkage.
8. Heterochromatin.
9. Endocytosis.
10. S-phase.

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**K22U 3775**

11. Trisomy 21.
12. Multiple alleles.
13. Nucleosome.
14. Monosomy.

**PART – C  
(Essay)**

**(4×3=12)**

Answer **any 4** questions.

15. Polytene chromosome.
16. Gap junctions.
17. Mitochondria.
18. Translocation.
19. Passive transport.
20. Dimerization.

**PART – D  
(Long Essay)**

**(2×5=10)**

Answer **any 2** questions.

21. Chromosomal aberrations.
  22. Explain Meiosis.
  23. Give an account of the specialized structures of plasma membrane.
  24. ABO blood group system.
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