

K22U 1790

Reg. No. :

Name :

**III Semester B.Sc. Degree (C.B.C.S.S. – Regular)
Examination, November 2021
(2020 Admission)**

**GENERAL AWARENESS COURSE IN LIFE SCIENCES (ZOOLOGY) AND
COMPUTATIONAL BIOLOGY
3A11ZCB – Cell Biology and Genetics**

Time : 3 Hours

Max. Marks : 40

**PART – A
(Short Answer)**

Answer **all** questions :

(6×1=6)

1. What is a nucleoid ?
2. Define cell theory.
3. Peroxisomes.
4. Define Anaphase.
5. Microvilli.
6. Telomere.

**PART – B
(Short Essay)**

Answer **any 6** questions :

(6×2=12)

7. G-banding.
8. Barr body.
9. Inversion.
10. Bombay blood group.

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11. Dihybrid cross.
12. Microtubules.
13. Interphase.
14. Golgi bodies.

**PART – C
(Essay)**

Answer **any 4** questions :

(4×3=12)

15. Active transport.
16. Cell cycle.
17. Ribosomes.
18. Aneuploidy and Euploidy.
19. Crossing over.
20. Frameshift Mutations.

**PART – D
(Long Essay)**

Answer **any 2** questions :

(2×5=10)

21. Explain in detail the structure and functions of Plasma membrane.
 22. Explain Mitosis.
 23. Pharmacogenetics and its applications.
 24. Explain the structures of Human chromosome, Polytene chromosome and Lampbrush chromosome.
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