

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, AUGUST 2013

(CUCSS)

General Biotechnology

GB 2C 2—MOLECULAR BIOLOGY

Time : Three Hours

Maximum : 36 Weightage

Section A

*Answer **all** questions.*

1. Premosome complex.
2. Topoisomerase.
3. AMES test.
4. UV mutagenesis.
5. Jumping genes.
6. hn RNA.
7. Omeogenes.
8. Peptidyl transferase.
9. Point mutation.
10. Pseudogenes.

(10 x 1 = 10 weightage)

Section B

*Answer any **seven** of the questions.*

11. Chargoff's rule.
12. Replication of circular DNA.
13. Ribozymes.
14. DNA methylation.
15. Arabinose operon.
16. Wobble hypothesis.
17. t-RNA.

Turn over

18. Tumor suppressor genes.
19. Transduction.
20. Chemical mutagens.

(7 x 2 = 14 weightage)

Section C

*Answer any **two** of the questions.*

21. Write briefly on biosyntheses and processing of RNAs.
22. Discuss the DNA repair mechanisms.
23. Explain protein synthesis in prokaryotes.

(2 x 6 = 12 weightage)