

D 70975

(Pages : 2)

Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2019

(CUCSS)

Microbiology

MB 3C 10—MOLECULAR BIOLOGY

(Regular)

Time : Three Hours

Maximum : 36 weightage

Part A

*Answer **all** questions.*

Comment on the following :

1. Histones.
2. Helicase.
3. Polysome.
4. Genome.
5. Genetic code.
6. Tumor suppressor genes.
7. Spliceosome.
8. B-DNA.
9. Nucleoside.
10. RNA splicing.
11. RNA polymerase.
12. Replication fork.
13. mRNA.
14. Anticodon.

(14 × 1 = 14 weightage)

Part B

*Answer any **seven** questions.*

Write briefly on the following :

15. Modes of DNA replication.
16. Reverse transcription.

Turn over

17. Griffith's transformation experiment.
18. Bacterial conjugation.
19. Lytic phages.
20. Jumping genes.
21. Radiation induced damage to DNA.
22. Role of ribosomes in protein synthesis.
23. RNA splicing.
24. Eukaryotic genome organisation.

(7 × 2 = 14 weightage)

Part C

*Answer any **two** questions.*

25. Describe the ultrastructure of DNA with diagram.
26. Explain the mechanism of transduction.
27. Describe transcription in prokaryotes.
28. Write a note on different type of plasmids.

(2 × 4 = 8 weightage)