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Section - 'B' 5×10=50

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Unit - I

Q.2. Explain mechanism and involvement of enzymes in DNA replication.

OR

Differentiate between fine structure and organization of prokaryotic and eukaryotic DNA.

Unit - II

Q.3. Describe different chemical and physical mutagens and their action.

OR

Describe base excision repair and SOS repair in detail.

Unit - III

Explain part transcriptional processing of RNAs. Q.4.

OR

Discuss inhibitors of gene expression in detail.

Unit - IV

Describe signal hypothesis (protein export) elaborately. Q.5.

Explain Lac operon and its negative regulation.

Unit - V

Describe types of transduction and also their applications. Q.6. OR

> Write the mechanism of transformation with Griffith's experiment and application.



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M.Sc. 1st Semester (NEW/ATKT) Microbiology Examination December, 2017 MICROBIAL GENETICS

Paper: MB-103

[Maximum Marks: 85 Time Allowed : Three Hours1

Note: Attempt all questions.

Total No. of Questions: 61

Section - 'A'

Q.1. Write short notes on any 10 of the following: 10×3½=35

Chargaff's equivalence rule

- a) Forms of DNA
- b)
- Cairns model of DNA replication c)
- d) Recon
- Transition mutation e)
- Intercalating agents
- g) Photolyase enzyme
- Very short patch repair h)
- Polycistronic and monocistronic RNAs
- Sigma protein
- Splicing of mRNA k)
- Ribosome Editing 1)
- Transfection m)
- n) Hfr strain
- Restricted Transduction 0)

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