Reg. No. | | | | | | | | | |

MBH 501

Third Semester M.Sc. Examination, December 2018
MICROBIOLOGY (CBCS)
Molecular Biology

Time : 3 Hours Max. Marks : 70

I. Answer **any three** of the following : **(3×10=30)**

1) Write an account on properties and functions of DNA polymerase in replication.

2) Explain gene expression and regulation in prokaryotes with a suitable model.

3) Discuss on the types of carcinogens with appropriate examples.

4) Describe the genomic organization in prokaryotes.

5) Explain the steps in post transcriptional modifications and their significances.

II. Write notes on **any five** of the following : **(5×5=25)**

6) Transduction.

7) Excision DNA repair mechanism.

8) Protein splicing.

9) Tumor suppressor genes.

10) Transcription factors.

11) Inhibitors of Replication.

12) Oncogene proteins.

13) Types of nucleic acids.

P.T.O.

III. Write short notes on **any five** of the following : **(5×3=15)**

14) *Reverse transcriptase*.

15) *Monocistron*.

16) *Constitutive gene*.

17) Thymine dimer.

18) Metastasis.

19) Formyl-methionine.

20) Glycosylation.

21) 18s r RNA.
