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

MBS 456

II Semester M.Sc. Degree Examination, September/October 2022
MICROBIOLOGY
Microbial Biotechnology

Time : 3 Hours Max. Marks : 70

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

1) Heterologous protein
2) PHB.
3) Functional Foods.
4) Copyrights.
5) Peptide vaccines.
6) Catabolite repressor.
7) Structural Genes.

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

8) Baculovirus gene expression system.
9) L-ascorbic acid synthesis
10) Criteria for Microbial patenting.
11) Environmental Protection Act.
12) Single Cell Protein.
13) cDNA.
14) Production of monoclonal antibodies.

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

15) Describe the role of regulatory promoters for gene expression in *Bacillus Subtilis*.
16) Explain screening and production of Streptomycin.
17) Write an account on various sources, isolation and applications of Probiotics.
18) Discuss the procedures to obtain a patent for biotechnological inventions.
19) Elaborate the techniques involved in the production of any two genetically engineered food and their applications.
