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

BTH 501

Third Semester M.Sc. Degree Examination, December 2018
BIOTECHNOLOGY
(CBCS)
Microbial Biotechnology

Time : 3 Hours Max. Marks : 70

PART – A

Write short notes on **any ten** of the following (**not** exceeding **1** page **each**). **(10×2=20)**

1. a) Ti Plasmid.
   b) L-lysine.
   c) SCP.
   d) Frankia.
   e) Dextran.
   f) Transformed products.
   g) Trichoderma as a biocontrol agent.
   h) Sauerkraut.
   i) Thiamine.
   j) Azotobacter.
   k) Enzyme immobilization.
   l) Invertase.

PART – B

Write explanatory notes on **any five** of the following (**not** exceeding **3** pages **each**). **(5×6=30)**

2. Mycorrhiza as biofertilizer.
3. Genetic transformation in Aspergillus.
4. Purification of microbial protease and invertase.
5. Biogas production.
6. Bacillus thuringiensis as a biopesticide.
7. Cultivation of Oyster mushrooms.
8. Bacterial cellulose and its importance.

P.T.O.

PART – C

Answer **any two** of the following (**not** exceeding **7** pages **each**). **(2×10=20)**

9. Discuss the importance and microbial production of glutamic acid.
10. Discuss the uses and microbial production of amylases.
11. Give a detailed account on waste utilization to generate biofuels.
12. Discuss plant growth promoting rhizobacteria.

———————