

Roll No.					Total No. of Pages: 0	2

Total No. of Questions: 11

M.Sc (BT) EL-I (2018 Batch) (Sem.-1) **ENVIRONMENT BIOTECHNOLOGY**

> Subject Code: MBT-111 Paper ID: [75664]

Time: 3 Hrs. Max. Marks: 70

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks
- 2. SECTION-B contains SEVEN questions carrying SIX marks each and students have to attempt any FIVE questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. **Describe briefly:**

- MN.Filest Ranker com a) Rotating biological contractors
- b) Water pollution
- c) Activated sludge process
- d) Metagenomics
- e) Bioremediation
- f) Microbial leaching
- g) Biosurfactants
- h) Biomineralization
- i) Solid waste management
- i) Biomedical waste

1 M-75664 (S38)-2364



SECTION-B

- 2. What is environmental pollution? Describe various parameters of pollution monitoring.
- 3. Describe the waste treatment of dairy industry by photoremediation.
- 4. Describe the biodegradation of lignocellulosic materials giving suitable examples.
- 5. Describe the innovative techniques for prevention and control of pollution.
- 6. Describe briefly preliminary treatment, clarification and coagulation.
- 7. Explain briefly organic farming and biomineralization.
- 8. Describe the treatment of distillery waste by photoremediation.

SECTION-C

- 9. Discuss the municipal techniques for prevention and treatment of biomedical solid waste giving suitable examples.
- 10. Discuss the metagenomics and culture based approaches for bioremediation.
- 11. Describe biomass as a source of energy. Also highlight biocomposting and vermiculture.

2 | M-75664 (S38)-2364