



# RAN-1897

## T.Y. Biotechnology Sem VI Examination

### March / April - 2019

### C1C4 Environmental Biotechnology

Time: 2 Hours ]

[ Total Marks: 50

સૂચના : / Instructions

1.

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
Fill up strictly the details of signs on your answer book

Name of the Examination:

T.Y. Biotechnology Sem VI

Name of the Subject :

C1C4 Environmental Biotechnology

Subject Code No.: 1 8 9 7

Seat No.:

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Student's Signature

2. Figures to the right indicate full marks.
3. Draw neat and labelled diagrams wherever necessary.

**Q-1: Attempt the following:**

**(08)**

- (a) Factors responsible for Bioremediation.
- (b) Explain the term: Photostabilisation.
- (c) Mention the Precautions of Vermicompost.
- (d) Define Bioleaching. Name two Compounds for which commercial bioleaching is performed.

**Q-2: Attempt Any Two:**

**(14)**

- (a) Write the Production of Ethanol.
- (b) Why 'ex situ' bioremediation strategies are named so? Explain the techniques.
- (c) State different methods of bioleaching.

**Q-3: Attempt Any Two: (14)**

- (a) Explain Anaerobic Biological treatment of waste water.
- (b) Explain design and working of anaerobic baffled reaction with appropriate diagram.
- (c) Define 'Composting'. Explain alternative types of composting processes.

**Q-4: Write Short Notes: (Any Two) (14)**

- (a) State Municipal Waste Management Rules
  - (b) Types & Methods of Biobleaching
  - (c) Applications of PHA
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