



RAN - 2103001106020004

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T. Y. B. Sc. (Sem. - VI) Examination March - 2025

BT - 20 - 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. B. Sc. (Sem. - VI)

Name of the Subject :

BT - 20 - Environmental Biotechnology

Subject Code No.: **2103001106020004**

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. Define/Answer in short Any Four:

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- Write the technology comes in In-situ bioremediation.
- Mention the static pile composting method .
- What is Bioleaching?
- What are the important features of Biohydrogen?
- What are the advantages of Aerobic waste water treatment?

Q. 2. Attempt Any Two:

14

- Write steps wise method of Biogas production.
- Give a note on Microbial Hydrogen production with the help of fermentation method.
- What is PHA? Write properties and practical applications of PHA.

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Q. 3. Write Any Two: **14**

- a. Explain: factors responsible for bioremediation.
- b. What is Phytoremediation? Explain any two methods of metal precipitation.
- c. How can you use cellulosic waste to produced Bioethanol?

Q. 4. Attempt Any Two of the following: **14**

- a. Write the process of Metal precipitation with their advantages .
 - b. Give a note on Characteristics of waste water.
 - c. What are Biodegradable plastics? Explain in detail about types of Biopolymers.
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