



RAN - 2103001106020004

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T.Y. Biotechnology (Sem. VI) Examination April - 2023

BT - 20 Environmental Biotechnology

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions

(૧)

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 :

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. Write specific answers :

[08]

- A. Explain the term: Photostabilisation.
B. In which steps of biogas production, organic acids are produced?
C. Mention the Precautions of Vermicompost.
D. Enlist the properties of PHA.

Q-2. Attempt Any Two:

[14]

- A. What is biodiesel? How can it be obtained from Jatropha plants?
B. Write a note on *in situ* bioremediation methods.
C. Give an account on renewal energy resources.

Q-3. Explain in detail Any Two

[14]

- A. Types of phytoremediation used for remediating metal contaminants.
B. Why 'ex situ' bioremediation strategies are named so? Explain the techniques.
C. Physical, Chemical and biological characteristics of waste water.

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[1]

[P.T.O.]

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Q-4. Attempt Any Two of the Following:

[14]

- A. Define 'Composting'. Explain alternative types of composting processes.
 - B. State Municipal Waste Management Rules.
 - C. Strategies for reducing air pollution.
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