

**RAN-2103001106020004****T.Y.B.Sc. (Sem. -VI) Examination September - 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:**(8)**

- (a) Define: BOD.
- (b) What is Metal Phytoremediation?
- (c) Mention the advantages of Anaerobic Waste water treatment.
- (d) What is the significances of Biodiesel.
- (e) How solar energy is useful?

Q-2. Attempt Any Two:**(14)**

- (a) Write a Bioethanol production from Cellulosic waste.
- (b) Classify the Energy Resources.
- (c) Write a detail note on Biological, Chemical and physical Characteristics of waste water.

Q-3. Explain in detail Any Two:**(14)**

- (a) How can you explain Phytovolatilization and Rhizosphere Bioremediation?

- (b) What is Bio-remediation? Mention the Differences: in-situ and ex-situ Bioremediation.
- (c) Give a note on Bioleaching.

Q-4. Attempt Any Two of the following:

(14)

- Explain the process of Metal precipitation with their advantages .
- What are Biodegradable plastics? Explain in detail about types of Biopolymers.
- Write a detail note on Vermicomposting.
