

2103001106020004
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (SIXTH SEMESTER)
ENVIRONMENTAL BIOTECHNOLOGY – LEVEL 2

[Time: As Per Schedule]

[Max. Marks:50]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF SCIENCE (SIXTH SEMESTER)**
- b. Name of the Subject : **ENVIRONMENTAL BIOTECHNOLOGY**
- c. Subject Code No : **2103001106020004**

2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

--	--	--	--	--	--

Student's Signature

Q.1 Define/Answer in short Any Four:

8

- A. How solar energy is useful?
- B. What technology comes in Ex-situ bioremediation?
- C. What is COD?
- D. Define: Biopolymers
- E. Which materials are required for Vermicomposting?

Q.2 Attempt Any Two:

14

- A. Give a note on factors influencing biogas production.
- B. Write a note on Bioethanol production from Cellulosic waste.
- C. Explain: Anaerobic biological waste treatment.

Q.3 Explain in detail Any Two:

14

- A. Write a detail note on In-situ bioremediation.
- B. Write a note on Organic phytoremediation.
- C. Explain in detail about Activated sludge and oxidation ponds.

Q.4 Attempt Any Two of the following:

14

- A. What is Bioleaching? Explain types and methods of bioleaching.
- B. Give a brief note on PHA.
- C. Write a detail note on conventional solid waste treatment technologies.
