


RAN-2603001306044003
B.Sc. (Biotech) (NCF-NEP) (Sem. VI) Examination March - 2026
BT-ME-602 Environmental Biotechnology Theory
Time: 1 Hour]
[Total Marks: 25

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book. (2) Figures to the right indicate full marks. (3) Draw neat and labelled diagrams wherever necessary.	Seat No.: <table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> Student's Signature						

Q. 1 Short Question/One-Word Answer (Any 5 out of 6) (5)

- Define biogas.
- Name the main gas present in biogas.
- Which microorganisms are responsible for methane production in biogas plants?
- Define wastewater.
- What is BOD?
- What does UASB stand for?

Q. 2 Short Note/Brief Answer (Any 2 out of 3) (10)

- Explain the stages of anaerobic digestion involved in biogas production with a neat diagram.
- Describe methods used in Environmental Carcinogenicity Testing.
- Discuss the factors affecting biogas yield and methane production.

Q. 3 Short Note/Brief Answer (Any 2 out of 3) (10)

- Explain Characteristics of Wastewater.
- Describe parameters included in Characteristics of Wastewater.
- Apply Characteristics of Wastewater in selecting a treatment method.