



R A N - 2 1 0 3 0 0 0 2 0 6 0 2 0 1 7 5

RAN-2103000206020175**B.Sc. Environmental Science (Sem. 6) Examination October - 2023****ENV - 605 - 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:

B.Sc. Environmental Science (Sem. 6)

Name of the Subject :

ENV - 605 - Environmental Biotechnology

Subject Code No.: 2103000206020175

Seat No.:

Student's Signature

- (2) Question-1 is compulsory.
- (3) Figures to the right indicate full marks.
- (4) Draw neat and labeled diagrams wherever necessary.

Que.1 Give specific answer of the following:**12**

1. Define Biofuel. Give two examples of biofuel.
2. What is rhizofiltration? State two advantages of rhizofiltration technique.
3. Give two examples of natural plasmid.
4. Write names of two microorganisms involved in oil biodegradation process.
5. Give full form: ISFET, GFP
6. Write two limitations of bioremediation technology.

Que.2 Comment on / Justify any two of the following:**12**

1. Gene cloning is a multistep process - Justify
2. Process of copper bioleaching - Comment
3. Types of biosensor - Comment.

Que.3 Attempt any two of the following:**16**

1. Discuss: Process of Composting.
2. Define Plasmid. Write a note on pBR322.
3. Write an elaborate note on types and working methodology of Microbial Fuel Cell.

RAN-2103000206020175]

[1]

[P.T.O.]

P0140

Que.4 Write short notes on any two of the following:

10

1. Ames test
 2. Bioaugmentation
 3. Types of DNA Polymerase
-