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BSCBTO 283

**Choice Based Credit System Fourth Semester B.Sc. Degree
Examination, September 2022
(2020-21 Batch Onwards)
BIOTECHNOLOGY**

Open Elective : Biotechnology in Daily Life

Time : 2 Hours

Max. Marks : 40

Note : Answer **all** the questions and draw diagrams **wherever** necessary.

PART – A

1. Answer **any five** of the following : **(5×2=10)**
- a) Mention any four examples for biofertilizers.
 - b) Define biomining with an example.
 - c) Name any two microbes used in petroleum degradation.
 - d) Expand IVF.
 - e) Write the scope of Biotechnology.
 - f) Define bioreactor with two applications.
 - g) Write the applications of amylases.

PART – B

Answer **any two full** questions choosing **one** from **each** Unit :

Unit – I

2. a) Write a note on Bt gene. **4**
- b) Write a note on industrial applications of lipases. **4**
- c) Explain composting and its applications. **7**

OR

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| 3. a) Write the principles of fermentation with its applications. | 3 |
| b) Write a note on transgenic crop- Bt brinjal. | 5 |
| c) Discuss on biopesticides. | 7 |

Unit – II

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| 4. a) Write a note on factor VIII. | 4 |
| b) Describe animal bioreactors. | 4 |
| c) Explain industrial effluent treatment. | 7 |

OR

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| 5. a) Write a note on stem cell therapy. | 3 |
| b) Explain biotransformation. | 5 |
| c) Discuss municipal solid waste management. | 7 |
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