

**Q.P. Code – 42646**

**Sixth Semester B.Sc. Degree Examination, September 2020**

*(CBCS Scheme)*

**Biotechnology**

**Paper VIII – INDUSTRIAL AND ENVIRONMENTAL BIOTECHNOLOGY**

*Time : 3 Hours]*

*[Max. Marks : 90*

*Instructions to Candidates : Draw labelled diagrams wherever necessary.*

**PART – A**

I. Answer any **TEN** of the following :

**(10 × 2 = 20)**

1. Inducers
2. Storing with mineral oil
3. Antifoam agents
4. Biocatalysts
5. Polyhydroxybutyrate
6. Dual fermentation
7. Pectinase
8. Microbial Hydrogen
9. Biosorption
10. Azatobacter
11. Sludge
12. Herbicide resistant gene

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**PART – B**

II. Answer any **SIX** of the following :

**(6 × 5 = 30)**

13. Spread plate method
14. Tower fermenter
15. Xanthan production
16. SCO
17. Biopesticides
18. Copper Bioleaching
19. Genetically Modified Animals
20. Septic Tank

**PART – C**

III. Answer any **FOUR** of the following :

**(4 × 10 = 40)**

21. Explain the requisites of an industrial microorganism in detail.
  22. Explain different types of fermentation media with examples.
  23. Define Downstream processing. Explain the steps involved in it.
  24. Explain the production of Vitamin B<sub>12</sub> with its significance.
  25. Give an account on Xenobiotics. Add a note on its significance.
  26. Write a note on municipal waste water treatment in detail.
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