

61527

Fifth Semester B.Sc. Degree Examination, March/April 2021

(CBCS Scheme)

Biotechnology


Paper V – GENETIC ENGINEERING AND ENVIRONMENTAL BIOTECHNOLOGY

Time : 3 Hours]

[Max. Marks : 70

Instructions to Candidates : Draw a neat labelled diagrams wherever necessary.

SECTION – A

- I. Write short notes on the following : (5 × 2 = 10)
1. Genomic DNA
 2. Endo-nuclease
 3. Primer
 4. Chealation
 5. Methane gas
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SECTION – B

- II. Answer any **FOUR** of the following : (4 × 5 = 20)
6. Write a note on Micro injection.
 7. Write a note on pUC-19.
 8. Describe the expression of cloned DNA.
 9. What are genetically engineered microbes? Explain.
 10. Symbiotic nitrogen fixation.

SECTION – C

- III. Answer any **THREE** of the following : (3 × 10 = 30)
11. What are vectors? Explain any two cloning vectors.
 12. Illustrate the production of human Growth Hormone.

61527

13. Explain sangars method of DNA sequencing.
14. What is biodegradation? Explain the role of microorganisms in it.
15. What is Biogas? Explain the process of production.

SECTION - D

IV. Answer the following :

(10 × 1 = 10)

16. _____ is separated in northern blotting.
17. What is transcription?
18. What is dissolved oxygen?
19. Name the antibiotic resistant marker in pUC-19.
20. What are detergents?
21. Give an example for nitrogen fixing bacteria.
22. Cohesive ends
23. Recalcitrants
24. Who invented PCR?
25. Septic tank

