

Ph.D Course Work Examinations, July-2023

BIOTECHNOLOGY

Course-III: Biotechnology

Time: 3 hours

Marks: 70

Instructions: *All sections are compulsory*

SECTION-A

I. Answer any Five of the following questions in about one and half page each.

(5x5=25)

1. Braggs Law
2. Circular dichroism
3. Gene therapy
4. Attenuated
5. Embryonic stem cells
6. BT gene
7. Quorum sensing

SECTION-B

II. Answer any Three of the following questions in about three pages.

(3x10=30)

8. Write an account on Plasmon spectroscopy.
9. Write a note on Sangers method of sequencing.
10. Explain hypersensitivity.
11. Explain the structure and functions of MHC.
12. Write an account on micropropagation.

SECTION-C

III. Answer any One of the following questions in about four pages.

(1x15=15)

13. Describe the structure and functions of antibodies.
14. Discuss the role of important enzymes in gene technology.
