

CP 16102 BS

THREE YEAR B.Sc. DEGREE EXAMINATION, NOVEMBER 2023.

FIRST SEMESTER

Life Science Honours

INTRODUCTION TO APPLIED BIOLOGY

Time : Three hours

Maximum : 70 marks

(No additional sheet will be supplied)

PART A — (5 × 4 = 20 marks)

Answer any FIVE questions.

1. Contributions of Edward Jenner
2. Characteristics of Archae bacteria
3. Isoelectric point
4. Functions of proteins
5. Algal bio fertilizers
6. Transgenic animals disease models
7. Gene therapy
8. Differences between Positive eugenics and negative eugenics
9. Proteomic
10. Primary data and secondary data

PART B — (5 × 10 = 50 marks)

Answer ALL questions.

11. Describe the structure of bacteria.

Or

12. Write about the types of Immunity.
13. Explain the classification of carbohydrates.

Or

14. Describe the Watson and Crick's model of DNA.

15. Give a detailed account on applications of biotechnology.

Or

16. Write an essay on restriction enzymes.

17. Describe about DNA fingerprinting.

Or

18. Give a detailed account on ELISA.

19. Explain about median what are its merits and demerits.

Or

20. Write about the virus types of biological data bases.
