

CP 16101 BS

THREE YEAR B.Sc. DEGREE EXAMINATION, DECEMBER 2023/JANUARY 2024

FIRST SEMESTER

Life Science Honours

INTRODUCTION TO CLASSICAL BIOLOGY

Time : Three hours

Maximum : 70 marks

(No additional sheet will be supplied)

SECTION A — ($5 \times 4 = 20$ marks)

Answer any FIVE questions.

1. Binomial nomenclature
2. Kinds of Pollution
3. Structure of monocot Embryo
4. Various kinds of Pollination
5. Economic Importance of Apiculture
6. Unique features of Hormones
7. Cell Cycle
8. Central dogma of molecular biology
9. Covalent bond
10. Scope of chemistry

SECTION B — ($5 \times 10 = 50$ marks)

Answer ALL questions

11. Explain about International code of Zoological Nomenclature (ICZN).

Or

12. Write an essay on conservation of Biodiversity.
13. Describe the classification of plant kingdom.

Or

14. Explain the procedure for mushroom cultivation.

15. Give a brief account on Gametogenesis.

Or

16. Explain various types of metabolic disorders.

17. Describe the ultra structure of prokaryotic cell.

Or

18. Explain various theories explaining the origin of life on earth.

19. Write about the benefits and principles of green chemistry.

Or

20. Explain about Hydrogen bonding and Vander Waals attraction.

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.