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FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2022 (Regular/Improvement/Supplementary)

PSYCHOLOGY GPSY1C01T: HUMAN PHYSIOLOGY

Time: 2 Hours Maximum Marks: 60

SECTION A: Answer the following questions. Each carries 2 marks. (Ceiling 20 Marks)

- 1. Distinguish between monosaccharide and polysaccharide. Give one example for each.
- 2. What is the importance of the S phase in the cell cycle?
- 3. Explain cell theory.
- 4. Define alleles with examples.
- 5. Discuss the functions of ribosomes.
- 6. What is crossing over?
- 7. Citing one example, explain sex chromosomal anomaly.
- 8. Mention the four main components of an interphase nucleus.
- 9. Explain the genetics behind albinism?
- 10. What do you mean by trisomy? Give an example.
- 11. What is peptide linkage?
- 12. What are mutagens? Give one example.

SECTION B: Answer the following questions. Each carries 5 marks. (Ceiling 30 Marks)

- 13. Describe the structure of DNA with the help of a diagram.
- 14. Describe mitotic prophase and metaphase with the help of diagrams.
- 15. Discuss the genetics and phenotypic features of Klinefelter's syndrome.
- 16. What are multiple alleles? Explain with one example.
- 17. What are the different types of mutations?
- 18. Discuss the major differences between mitosis and meiosis.
- 19. Briefly discuss Mendel's laws of inheritance.

SECTION C: Answer any 1 question. Each carries 10 marks

- 20. Write an essay on the major types of tissues in animals.
- 21. Illustrate the morphology, structure, organization and types of chromosomes.