

23U121

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Name:

Reg.No:

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U PSG1 C01 - HUMAN PHYSIOLOGY - I

(Psychology - Complementary Course)

(2019 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Vacules.
2. Sertoli cell.
3. General formula of carbohydrates.
4. Topo-isomerase.
5. Exons.
6. Double crossing over.
7. Y - Chromosome.
8. Mitotic phase.
9. Meiosis.
10. Epistasis.
11. Phenylketonuria.
12. Down's syndrome.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Briefly describe the cell principle.
14. Brief mention of spatial and temporal control of gene activity.
15. Different kinds of chromosomes with suitable diagram.
16. Write a note on linkage.

17. Brief explanation of terms - Alleles, homozygosity and heterozygosity.
18. What is gene mutation? What are the different kinds of mutation?
19. Classification of mutation (somatic, gametic, point, spontaneous, induced and silent).

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

20. Explain the structure of DNA.
21. Explain the Mendel's laws of inheritance.

(1 × 10 = 10 Marks)
