

D 34251

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Name.....

Reg. No.....

**FIRST SEMESTER INTEGRATED P.G. (REGULAR/SUPPLEMENTARY/IMPROVEMENT) DEGREE EXAMINATION, NOVEMBER 2022  
(FOR 2021 AND 2022 ADMISSIONS)**

And

**FIRST SEMESTER (SUPPLEMENTARY/IMPROVEMENT) DEGREE EXAMINATION, NOVEMBER 2021 (FOR 2020 ADMISSION ONLY)**

M.Sc. Psychology

PSG11C01—HUMAN PHYSIOLOGY—I

Time : Two Hours

Maximum : 60 Marks

**Part A**

*Answer all questions in a word.  
Each question carries 1 mark.*

1. Organelles.
2. Cell.
3. Introns.
4. DNA.
5. Phenotype.
6. Gene.
7. Galactosemia.
8. Epistasis.
9. Epithelial.
10. Dihybrid cross.

(10 × 1 = 10 marks)

**Part B**

*Write short notes on any five questions.  
Each question carries 2 marks.*

11. Alkaptonuria.
12. Cell principle.

Turn over

13. Genetic code.
14. Monohybrid cross.
15. Genotype.
16. Albinism.
17. Mitosis.
18. Allele.
19. Cri du chat syndrome.
20. Pleiotropy.

(5 × 2 = 10 marks)

### Part C

*Answer any five questions in a paragraph.  
Each question carries 4 marks.*

21. Explain morphology of chromosomes.
22. Discuss about Mendel's work.
23. Explain unicellularity to multicellularity aspect of cell.
24. What are the kinds of chromosomes ?
25. Elaborate the laws of inheritance.
26. Explain spatial control of gene activity.
27. Discuss on the concept of gene.
28. What is incomplete dominance and co-dominance ?

(5 × 4 = 20 marks)

### Part D

*Essay question. Answer any two questions.  
Each answer carries 10 marks.*

29. Explain sex linked chromosomes and its anomalies.
30. Explain the structure of DNA and DNA replication.
31. Elucidate the structure of cell with diagram.
32. Explain cell division.

(2 × 10 = 20 marks)