

D1BPS2002 (S4)

Reg. No.....

Name:

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2024

(Improvement/Supplementary)

PSYCHOLOGY

GPSY1C01T: HUMAN PHYSIOLOGY

Time: 2 Hours

Maximum Marks: 60

**SECTION A: Answer the following questions. Each carries *two* marks.
(Ceiling 20 marks)**

1. Define phenotype and genotype.
2. What is emasculation?
3. Differentiate between introns and exons.
4. State the features of phenylketonuria.
5. What is a test cross? Mention its use.
6. What do you mean by linkage?
7. Comment on alkaptonuria.
8. What are polysaccharides? Give one example.
9. Highlight the major changes that a cell undergoes during prophase.
10. Write a short note on a semi-autonomous cell organelle.
11. Give an account on epistasis.
12. What are ligases? Mention their function.

**SECTION B: Answer the following questions. Each carries *five* marks.
(Ceiling 30 marks)**

13. With the aid of diagrams explain the morphology of different types of chromosomes.
14. Explain cell cycle.
15. Describe the fluid- mosaic model of plasma membrane.
16. Provide a description of different types of mutations.
17. What are multiple alleles? Explain with an example.
18. Enlist the differences between mitosis and meiosis.
19. Describe the structure of DNA.

SECTION C: Answer any *one* question. The question carries *ten* marks.

20. Explain autosomal anomalies and sex chromosomal anomalies citing two examples for each.
21. What are tissues? Describe the major types of tissues found in a human body.

(1 × 10 = 10 Marks)