

D 12658

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Name.....

Reg. No.....

**FIRST SEMESTER (CBCSS—UG) DEGREE EXAMINATION  
NOVEMBER 2021**

Psychology

PSG 1C 01—HUMAN PHYSIOLOGY—I

(2021 Admissions)

Time : Two Hours

Maximum : 60 Marks

**Section A***Answer all questions.**Each question carries 1 mark.*

1. Name the outermost boundary of the cell.
2. An organism that has a single chromosome and cell division occurs through cell division or budding.
3. What is cytoplasm ?
4. What happens to the centrioles during meiosis ?
5. In which phase of the cell cycle does cell division occurs ?
6. What is translation ?
7. Phenylketonurea is a \_\_\_\_\_ disorder.
8. If two or more characters are inherited together and consistently appear in two or more generations in their original or parental combinations it is called \_\_\_\_\_ linkage.
9. What does law of independence say ?
10. When a base or some bases deleted from the gene sequence it is called \_\_\_\_\_.

(10 × 1 = 10 marks)

**Section B***Answer at least five questions.**Each question carries 2 marks.**All questions can be attended.**Overall Ceiling 10.*

11. Introns
12. Lipids
13. Meiosis.
14. Allele.

**Turn over**

15. Replication.
16. Sex linked chromosomes.
17. Phenotype.
18. Epistasis.
19. Albinism.
20. Autosomal recessive inheritance.

(5 × 2 = 10 marks)

### Section C

*Answer at least **four** questions.*

*Each question carries 5 marks.*

*All questions can be attended.*

*Overall Ceiling 20.*

21. Which are the four classes of chromosomes on the basis of position of centromere ?
22. Mendel's Laws of inheritance.
23. Differentiate homozygosis and heterozygosis.
24. What is the differences between Incomplete dominance and Co-dominance ?
25. Differentiate mitosis and Meiosis.
26. What are the characteristics of genetic code ?
27. Examine the positive and negative regulators of cell cycle.
28. What are the signs of Turner's syndrome ?

(4 × 5 = 20 marks)

### Section D

*Answer any **two** questions.*

*Each question carries 10 mark.*

29. Explain the cell cycle and explain the growth factors that affect cell cycle.
30. Examine the types of mutations.
31. Examine the different types of tissues, their characteristics and functions.
32. Explain the autosomal anomalies.

(2 × 10 = 20 marks)