

D 32389

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Name.....

Reg. No.....

**FIRST SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2022**

Psychology

PSG 1C 01—HUMAN PHYSIOLOGY—I

(2019—2022 Admissions)

Time : Two Hours

Maximum : 60 Marks

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

1. Which is the structural and Functional unit of life which lack anucleus ?
2. Which is the structural unit of a chromosome ?
3. What is the study of tissues called ?
4. What are parental gametes ?
5. What causes sickle celled anaemia ?
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 (Short Answers)*Answer any five questions.**Each question carries 2 marks.*

- | | |
|------------------------|-----------------------------|
| 11. Epithelial tissue. | 16. Sex linked chromosomes. |
| 12. Cytoplasm. | 17. Phenotype. |

Turn over

13. Carbohydrates.
14. Exones.
15. Mitosis.
18. Epistasis.
19. Albinism.
20. Autosomal recessive inheritance.

(5 × 2 = 10 marks)

Section C

Answer in a Paragraph.

*Answer any **five** questions.*

Each question carries 4 marks.

21. What is crossing over ? What are the factors that affect crossing over ?
22. What is Cytoskeleton ? What are its functions ?
23. Examine the positive and negative regulators of cell cycle.
24. What are the causes of mutations ?
25. Differentiate mitosis and Meiosis.
26. What is incomplete dominance ? Why does it occur ?
27. What is genetic code ? What is its Significance ?
28. What are the signs of Turner's syndrome ?

(5 × 4 = 20 marks)

Section D (Essay Questions)

*Answer any **two** questions.*

Each question carries 10 marks.

29. What are Chromosomes ? Explain the morphology of Chromosomes.
30. Examine the different types of tissues, their characteristics and functions.
31. Explain Mendel's work and laws of inheritance.
32. Explain the autosomal anomalies.

(2 × 10 = 20 marks)