

D 13617

(Pages : 2)

Name.....

Reg. No.....

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

Psychology

PSG 1C 01—HUMAN PHYSIOLOGY—I

(2019—2020 Admissions)

Time : Two Hours

Maximum : 60 Marks

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

1. What is a cell ?
2. DNA stands for ———.
3. Name the outermost boundary of the cell.
4. An organism that has a single chromosome and cell division occurs through cell division or budding.
5. What is cytoplasm ?
6. What happens to the centrioles during meiosis ?
7. In which phase of the cell cycle does cell division occurs ?
8. Who is the father of genetics ?
9. What is Dominance ?
10. Down syndrome is a ——— anomaly.

(10 × 1 = 10 marks)

Section B (Short Answers)*Answer any **five** questions.**Each question carries 2 marks.*

11. Define cellular organization.
12. Introns.
13. Lipids.
14. Meiosis.

Turn over

15. Allele.
16. Replication.
17. Genotype.
18. Pleiotropy.
19. Gene Mutation
20. Cri du chat syndrome

(5 × 2 = 10 marks)

Section C

Answer in a Paragraph.

*Answer any **five** questions.*

Each question carries 4 marks.

21. What is Linkage ? Which are the types of Linkages ?
22. Which are the *four* classes of chromosomes on the basis of position of centromere ?
23. Mendel's Laws of inheritance.
24. Differentiate homozygosis and heterozygosis.
25. What are the differences between Incomplete dominance and Co-dominance ?
26. What are the characteristics of genetic code ?
27. What are multiple allele ? What are its features ?
28. What are sex chromosomal anomalies ? What is its cause ?

(5 × 4 = 20 marks)

Section D (Essay Questions)

*Answer any **two** questions.*

Each question carries 10 marks.

29. Draw the diagram of a cell mark important organelles and explain the functions of each.
30. Explain the cell cycle and explain the growth factors that affect cell cycle.
31. Examine the types of mutations.
32. Elucidate the four stages of Mitosis.

(2 × 10 = 20 marks)