

D 54971

(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER INTEGRATED P.G. (REGULAR/SUPPLEMENTARY/  
IMPROVEMENT) RE-EXAMINATION, NOVEMBER 2023  
(2021 ADMISSION ONWARDS) AND SUPPLEMENTARY/IMPROVEMENT  
RE-EXAMINATION, NOVEMBER 2022 (2020 ADMISSIONS ONLY)**

M.Sc.. Psychology

PSG1 1C01—HUMAN PHYSIOLOGY—I

Time : Two Hours

Maximum : 60 Marks

**I. Answer all the following questions (one sentence) :**

- 1 Name one autosomal recessive genetic disorder.
- 2 What is “law of segregation” ?
- 3 What is Klinefelter's syndrome ?
- 4 Name two clinical features of Edward syndrome.
- 5 List the stages of mitosis.
- 6 What are introns?
- 7 What is Karyotype ?
- 8 Give an example for a connective tissue .
- 9 What is a monohybrid cross ?
- 10 What is induced mutation ?

(10 × 1 = 10 marks)

**II. Answer any five (Short answer type) :**

- 11 Endocytosis
- 12 Peroxisomes
- 13 Membrane phospholipids
- 14 Cell adhesion molecules
- 15 Apoptosis
- 16 Down's syndrome

**Turn over**

- 17 Multiple alleles
- 18 Laws of inheritance
- 19 Phenylketonuria
- 20 Gap junctions

(5 × 2 = 10 marks)

III. Answer any *five* (Paragraph) :

- 21 Fluid Mosaic Model.
- 22 Telomeres.
- 23 Genetic Code.
- 24 Crossing Over.
- 25 Incomplete Dominance.
- 26 Functions of Centrioles.
- 27 Albinism.
- 28 Cri du chat syndrome.

(5 × 4 = 20 marks)

IV. Answer any *two* (Essay) :

- 29 With the help of a neat labeled diagram explain the various cell organelles.
- 30 Explain different kinds of mutation. Name any two gene mutation disorders.
- 31 Explain with diagram different stages of Meiosis.
- 32 Write an essay on DNA replication.

(2 × 10 = 20 marks)