C 40662

(Pages: 2)

Name.....

Reg. No.....

## SIXTH SEMESTER U.G. DEGREE EXAMINATION, MARCH 2023

(CBCSS)

Zoology

ZOL 6B 14 (E) 01T—HUMAN GENETICS

(2019 Admission onwards)

Time: Two Hours

Maximum Marks: 60

## Section A

- I. Short Answer Questions. Each question carries 2 marks:
  - 1 Write a note on Archaeogenetics.
  - 2 Comment on Indian Genome Variation initiative.
  - 3 Briefly explain FISH.
  - 4 Comment on Ecogenetics.
  - 5 What is marriage counselling?
  - 6 Write note on Genomic imprinting.
  - 7 Comment on Consanguinity.
  - 8 Explain the disorder congenital adrenal hyperplasia.
  - 9 Explain the outcome of Stockholm conference.
  - 10 Write note on CF gene and Cystic fibrosis.
  - 11 What is biological twinning?
  - 12 Write notes on genetic sequencing.

(Ceiling: 20 marks)

## Section B

- II. Paragraph questions. Each question carries 5 marks;
  - 13 Write note on maternal effect gene with suitable examples.
  - 14 Briefly explain the autosomal dominant genes and their effect on human.
  - 15 Explain the steps involved in the construction of human pedigree.
  - 16 Write a note on multifactorial inheritance with examples.
  - 17 Briefly explain various banding techniques.

Turn over

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- 18 Write a note on X-linked disorders in human.
- 19 Briefly describe various types of non-disjunction of chromosomes.

(Maximum: 30 ma

## Section C

- III. Essay Questions. Answer any one question. The question carries 10 marks:
  - 20 Write an essay on types of structural modifiation in chromosomes. Add notes on effects on phenotypes.
  - 21 Give an account on various types of prenatal diagnostic techniques.

 $(1 \times 10 = 10 \, \text{m})$ 

