

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 3494

I

Unique Paper Code : 2154001005

Name of the Paper : (Generic): Genetic Research in
Anthropology

Name of the Course : **B.Sc. (H) Anthropology**

Semester : I (Part I) November-December
2024 (NEP-UGC-F-2022)

Duration : 3 Hours

Maximum Marks : 90

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **five** questions.
3. **All** questions carry equal marks.

1. Describe the Indian Ethical guidelines pertaining to genetic research.
2. Write an essay on electrophoresis.

P.T.O.

3. Describe the Candidate Gene approach used in genetic epidemiology.
4. Explain the Genotyping methods used in genetic research in anthropology.
5. Discuss the Hardy-Weinberg equilibrium and its utility in genetic research.
6. Explain the genetic polymorphisms used in genomic research related to diseases.
7. Discuss the various statistical tools used in human genetics.
8. What are the various methods of detecting linkage in genetic studies? Explain.
9. Write short notes on any two of the following :
 - (a) Next Generation Sequencing
 - (b) Genome
 - (c) Agglutination
 - (d) Mendelian traits