

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2997 **I**

Unique Paper Code : 2154002006

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

Name of the Course : **B.Sc. (H) Anthropology Part
II November-December
2024 (NEP-UGCF-2022)**

Semester : III

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 principle and properties of Hardy-Weinberg equilibrium.

2. Write an essay on case-control studies in clinical genetics.

P.T.O.

3. What is genetic polymorphism? Discuss various types of polymorphisms used in genetic studies.
4. Discuss the ethical issues discussed and suggested in Human Genome Project.
5. Examine the relevance of conducting research in anthropological genetics.
6. Discuss the fieldwork challenges related to anthropological genetics.
7. Describe various genotyping techniques used genetic research.
8. Give a comparative account of Galtonian and Mendelian genetics.
9. Write short notes on *any two* of the following:
 - (a) Twin analysis
 - (b) MN blood groups
 - (c) Electrophoresis
 - (d) DNA structure