

3. Discuss the relevance of conducting research in anthropological genetics.
4. Discuss the fieldwork challenges related to anthropological genetics.
5. Describe various sequencing technologies used in studying genetics of complex disorders.
6. Discuss quantitative methods used in human genetics.
7. Describe Hardy-Weinberg equilibrium with suitable example.
8. Write an essay on cohort studies in clinical genetics.
9. Write **short note** on **any two** of the following
 - a. Sib-pair analysis
 - b. ABO blood groups
 - c. PCR
 - d. Evolution

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5794

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Unique Paper Code : 2154001005

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

Name of the Course : **B.Sc.** Anthropology Part -II

Semester : IV (NEP-UGCF-2022) May/
June 2024

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. Discuss the ethical guidelines pertaining to the collection of biological samples in anthropological genetics.
2. What is genetic polymorphism? Discuss using suitable examples.

P.T.O.