

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5801

H

Unique Paper Code : 2154002006

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. What is genetic linkage? Discuss various methods of detecting linkage in human genetics.
2. Describe various genotyping methods used in genetic research in anthropology.

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3. Discuss quantitative statistical methods used in human genetics.
4. Discuss the ethical framework pertaining to research in anthropology genetics.
5. Discuss the various assumptions of Hardy-Weinberg equilibrium.
6. What are the different types of genetic polymorphisms used genetic research?
7. Discuss the major landmarks in the history of genetic research in anthropology.
8. Describe the role of anthropological genetics in detecting ancient population history.
9. Write **short note** on **any two** of the following
 - a. Molecular clock
 - b. PCR
 - c. Twin studies
 - d. Cross- sectional studies
 - e. Electrophoresis