

Sl. No. of Ques. Paper : 652

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Unique Paper Code : 215303

Name of Paper : **Human Genetics (ANTH – 308)**

Name of Course : **B.Sc. (Hons.) Anthropology**

Semester : **III**

Duration : **3 hours**

Maximum Marks : **75**

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt any five questions. All questions carry equal marks.

1. Discuss the landmarks in history of research in human genetics.
2. What do you understand by X linked recessive inheritance? Give some suitable examples.
3. Describe different types of numerical chromosomal abnormalities and the mechanism involved with at least *two* suitable examples.
4. Discuss chromosomal structure. Describe the evolving concept of gene in human genetics.
5. What is genetic adaptation? Discuss the role of genes and environment in genetic adaptation.
6. Write an essay on chromosome identification and banding.
7. Give a detailed account of genetic counselling.
8. What is genetic linkage? Discuss the method of twin studies used for research in human genetics.
9. Write short notes on any *two* of the following:
 - (a) Turner's Syndrome
 - (b) Multiple alleles
 - (c) Southern blotting
 - (d) Variable expressivity.