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Your Roll No. ....

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Sl. No. : 5619

Unique Paper Code : 215303

Paper : ANTH 308 Human Genetics

B.Sc. (H) Anthropology

Semester III

Time : 3 hours

Max. Marks : 75

**Attempt any five questions.**  
**All questions carry equal marks.**

1. Discuss the major milestones in the history of human genetics that have shaped its current landscape.
2. What do you understand by autosomal dominant inheritance? Give some suitable examples.
3. Describe different types of structural chromosomal abnormalities and the mechanism involved with at least two suitable examples.
4. Describe the concept of gene expression. Discuss its relationship with genetic disorders using suitable examples.
5. What do you understand by genetic polymorphism? Describe various types of DNA polymorphisms.
6. What is Karyotyping? Discuss the technical details of Karyotyping.
7. Give a detailed account of genetic screening.
8. What do you understand by genetic linkage? Discuss the method of sib-pair analysis used in human genetics.
9. Write **short notes** on any *two* of the following:
  - a) Pedigree analysis
  - b) Penetrance
  - c) Electrophoresis
  - d) Uniparental disomy