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Your Roll No.

B.Sc. (H) Part-III Semester VI

Unique Paper Code : 215603

Paper : ANTH 619 Genomic Diversity of Human Populations

E

Time : 3 hours

Max. Marks : 75

Attempt any five questions.
All questions carry equal marks.

1. Give an overview of the role of DNA variation in explaining human phenotypic diversity.
2. Write an essay on Indian genome diversity.
3. Give a detailed account of Human Genome Project.
4. Discuss the use of haplotypes in understanding human genomic diversity.
5. Discuss the relevance of Y chromosome DNA markers in tracing human migrations.
6. Discuss the genetic basis of human molecular evolution.
7. What is natural selection? Describe its role in understanding human evolution.
8. Discuss briefly International Human Genome Diversity Initiatives.
9. Write **short notes** on any *two* of the following:
 - (a) Linkage Disequilibrium
 - (b) Balanced genetic polymorphism
 - (c) Mutation
 - (d) Gene flow