

**S. No. of Question Paper : 8492**  
**Unique Paper Code: 215303**  
**ANHT-308: Human Genetics**  
**B.Sc. (Hons.) Anthropology Part-II**  
**Semester- III**

**C**

*Time: 3 Hours*

*Maximum Marks: 75*

---

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

1. Write a detailed note on identification of human chromosomes.
2. What are numerical and structural chromosomal abnormalities? Explain with suitable examples.
3. Write an essay on gene expression.
4. Explain the concept of gene relating to DNA structure.
5. What are the various types of autosomal inheritance models? Explain any two with suitable pedigrees and examples.
6. What do you mean by genetic polymorphism? Explain the multiple allele system of ABO blood groups.
7. Write an essay on genetic adaptation.
8. Give a detailed account of electrophoresis.
9. Write short notes on any two:
  - (a) Genetic screening
  - (b) Uniparental disomy
  - (c) Southern blotting
  - (d) Genetic counselling.