

MASTER'S IN ANTHROPOLOGY

(MAAN)

Term-End Examination

June, 2026

MANE-001 : HUMAN GENETICS

Time : 3 Hours

Maximum Marks : 100

Note : Attempt any **five** questions. Choose at least **two** questions from each Section. All questions carry equal marks. The word limit for 20 marks question is **500** words and for 10 marks question it is **250** words.

Section—A

1. Define Human Genetics. Give an account of various branches of Human Genetics. 20

2. Briefly describe various types of chromosomal aberrations in man with suitable examples. 20
3. What is Inbreeding ? Discuss different types of Inbreeding in Indian populations. 20
4. Describe the DNA double helical structure and its salient features. 20
5. Write short notes on any *two* of the following :
10+10
 - (a) Polymerase chain Reaction (PCR)
 - (b) Genetic epidemiology
 - (c) Genomics
 - (d) Galactosaemia

Section—B

6. Discuss the applications of Human Genome project. 20
7. What is prenatal diagnosis ? Examine different indications and techniques of prenatal diagnosis. 20

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8. Describe various techniques of human molecular genetics. 20
9. Define Bioinformatics. Discuss any *three* tools used for Bioinformatics research. 20
10. Write short notes on any *two* of the following :
10+10
 - (a) Ethical, Legal and Social Issues (ELSI) in genetic research.
 - (b) ABO blood group system
 - (c) Prenatal diagnosis
 - (d) Multiple alleles

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