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MANE-001

MASTERS IN ANTHROPOLOGY (MAAN)

Term-End Examination

June, 2024

MANE-001 : HUMAN GENETICS

Time : 3 Hours

Maximum Marks : 100

Note : There are **two** Section A and B Answer five questions. Attempt at least **two** questions from each section. All questions carry **equal** marks. The word limit for **20** marks question in **500** words and for **10** marks questions in **250** words.

Section–A

1. Define Human Genetics. Briefly discuss various branches of Human Genetics. 20
2. Give a detailed account of various forms of chromosomal aberrations in humans with suitable examples. 20

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3. Briefly examine the Inborn Errors of Metabolism with suitable examples. 20
4. Discuss in brief the Random mating and Assortative mating with suitable Indian examples. 20
5. Write short notes on any **two** of the following : 10+10
 - (a) Sickle Cell Haemoglobin
 - (b) ABO blood group system
 - (c) DNA Structure
 - (d) Genetic Screening

Section–B

6. Define DNA polymorphism. Briefly discuss various forms of DNA polymorphism. 20
7. Briefly discuss the importance of Ethical, Legal and Social Issues (ELSI) in Human Genetics Research. 20
8. Briefly examine any three tools of Bioinformatics research. 20

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9. What is prenatal diagnosis ? Briefly examine various indications and techniques of prenatal diagnosis.

20

10. Write short notes on any **two** of the following :

10+10

(a) Electrophoresis

(b) Epigenetics

(c) Colour blindness

(d) Human Genome Project
