MASTERS IN ANTHROPOLOGY (MAAN)

Term-End Examination

June, 2022

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 questions is 500 words and for 10 marks questions is 250 words.

SECTION A

- 1. What is Human Genetics? Briefly discuss different branches of Human Genetics. 20
- 2. What is Hardy-Weinberg Law? Discuss its importance and implications in Human Population Genetics.
- **3.** What are different types of Cell Division? Discuss 'Mitosis' with suitable diagrams.

20

20

- **4.** Briefly discuss various chromosomal aberrations in Man.
- **5.** Write short notes on any two of the following: 10+10=20
 - (a) Consanguineous Marriages
 - (b) Colour Blindness
 - (c) Genomics
 - (d) DNA Structure

SECTION B

6.	Briefly discuss various applications of Human	
	Genome Project.	20
7.	Define DNA polymorphism. Briefly comment on	
	different forms of DNA polymorphism.	20
8.	What is ethics in Genetic Research? Briefly	
	discuss Ethical, Legal and Social Issues (ELSI)	
	in Human Genetic Research.	20
9.	What is Prenatal Diagnosis ? Examine the	
9.		20
	techniques of prenatal diagnosis.	∠0
10.	Write short notes on any two of the	
	following: 10+10=	:20
	(a) Genetic Epidemiology	
	(b) Down Syndrome	
	(c) Polymerase Chain Reaction (PCR)	
	(d) Abnormal Haemoglobins	