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MANE-001

MASTERS IN ANTHROPOLOGY (MAAN)

Term-End Examination

December, 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

- What is Human Genetics? Briefly examine the different branches of Human Genetics.
- 2. Briefly discuss the Inborn Errors of Metabolismin Man, with suitable examples.
- What is Meiosis Cell Division? Describe the different stages of Meiosis Cell Division.

- **4.** Briefly discuss the different types of Mating Patterns in Man.
- **5.** Write short notes on any two of the following: 10+10=20
 - (a) ABO Blood Group System
 - (b) Fluorescence In Situ Hybridization (FISH)
 - (c) X-linked Inheritance
 - (d) Phenylketonuria

SECTION B

6.	What is Genetic Counselling ? Briefly discuss	
	the various procedures involved in Genetic	
	Counselling.	20
7.	Briefly discuss the Ethical, Legal and Social	
	Issues (ELSI) in Human Genetic research.	20
8.	Briefly comment on any three tools of	
	Bioinformatics research in human beings.	20
9.	Describe the structure and features of DNA.	20
10.	Write short notes on any two of the	
	following: 10+10=2	20
	(a) Hardy Weinberg Equilibrium	
	(b) Human Genome Project	
	(c) Differentiate between Consanguinity and Inbreeding	
	(d) Genetic Polymorphism	