No. of Printed Pages: 3

MANE-001

MASTERS IN ANTHROPOLOGY (MAAN)

Term-End Examination

June, 2019

·00935

MANE-001: HUMAN GENETICS

Time: 3 hours Maximum Marks: 100

Note: Answer 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 comment on different branches of Human Genetics. 20
- 2. What are different types of chromosomal aberrations in man? Discuss.
- 3. What is Mitosis? Briefly examine various stages of cell division with suitable diagrams.

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- 4. What are Inborn Errors of Metabolism? Briefly discuss on any two inborn errors of metabolism in man, with suitable examples.
 20
- **5.** Write short notes on any two of the following: 10+10=20
 - (a) Inbreeding
 - (b) ABO Blood Group System
 - (c) Polymerase Chain Reaction (PCR)
 - (d) Genetic Epidemiology

SECTION B

6.	What is prenatal diagnosis? Examine the different indicators and techniques of prenatal	-
	diagnosis.	20
7.	What is ethics in genetic research? Discuss Ethical, Legal and Social Issues (ELSI) in genetic research.	20
8.	Define DNA polymorphism. Examine different forms of DNA polymorphism.	20
9.	What is Human Genome Project (HGP)? Examine any two applications of Human Genome Project.	20
10.	Write short notes on any two of the following:	= 20
	(a) DNA Structure	
	(b) Hardy-Weinberg Law	
	(c) Sickle Cell Anaemia	٠
	(d) Colour Blindness	