MASTERS IN ANTHROPOLOGY (MAAN)

Term-End Examination

December, 2016

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. Define Human Genetics. Briefly comment on 20 different branches of Human Genetics.
- 2. What are different types of Cell Division? Discuss any one of the Cell Division with suitable diagrams.
- 3. Explain the Random mating and Assortative. 20
- **4.** Describe the structure and salient features of DNA **20** double helix.
- Write short notes on any two of the following in250 words each: 10+10
 - (a) Down Syndrome
 - (b) ABO Blood Group System
 - (c) Y- linked inheritance
 - (d) Cytogenetics

SECTION - B

6.	What is DNA Polymorphism? Briefly discuss different forms of DNA polymorphism.	20
7.	Discuss in brief various applications of Human Genome Project.	20
8.	What is Prenatal diagnosis? Examine the indications and techniques of Prenatal diagnosis.	20
9.	What is Bioinformatics? Briefly discuss any three tools used for Bioinformatics research.	20
10.	 250 words each: (a) Genomics (b) Polymerase Chain Reaction (PCR) (c) Ethical, Legal and Social Issues in Genetic research (ELSI) 	0+10
	(d) Colour Blindness	