No. of Printed Pages: 2

MANE-001

# 00000

# **MASTERS IN ANTHROPOLOGY (MAAN)**

### **Term-End Examination**

June, 2018

## **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 question is 500 words and for 10 marks question is 250 words.

### SECTION - A

- 1. Define Human Genetics. Briefly comment on the different branches of Human Genetics.
- 2. What is Mitosis? Briefly discuss various stages of cell division with suitable diagrams.
- 3. What are different types of chromosomal 20 aberrations in Man? Discuss.
- 4. What is Hardy Weinberg Law? Briefly discuss the different factors that influence change in gene frequencies.
- 5. Write short notes on any two of the following: 10+10
  - (a) Consanguineous marriages
  - (b) Polymorphism
  - (c) ABO blood group system
  - (d) Phenylketonuria

**MANE-001** 

# **SECTION - B**

6.		at is Human Genome Project? Briefly iment on the applications of Human Genome ject.	20	
7.	diffe	That is Inborn Errors of Metabolism? What are ferent Inborn Errors of Metabolism in Man? escribe any two with examples.		
8.		at is DNA polymorphism? Examine briefly 20 ferent forms of DNA polymorphism in Man.		
9.		That is prenatal diagnosis? Examine different 20 adications and techniques of prenatal diagnosis.		
10.	Write short notes on any two of the following: 10+10			
	(a)	PCR		
	(b)	Genetic Epidemiology		
	(c)	Ethical, Legal and Social Issues (ELSI) in Genetic research		
	(d)	FISH		