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No. of Printed Pages : 3

MANE-001

MASTERS IN ANTHROPOLOGY (MAAN) Term-End Examination

December, 2019

MANE-001 : HUMAN GENETICS

Time : 3 HoursMaximum Marks : 100Note : Attempt five questions in all. Choose at leasttwo questions from each Section. Allquestions carry equal marks. The word limitfor 20 marks question is 500 words and for10 marks question is 250 words.

Section-A

- 1. Define and briefly comment on various branches of Human Genetics. 20
- What is Hardy-Weinberg equilibrium ? Briefly discuss various factors that influence change in gene frequencies.

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- Describe the structure and salient features of DNA double helix.
 20
- 4. Briefly discuss different types of chromosomal aberrations in man. 20
- 5. Write short notes on any two of the following :

10 each

- (a) Consanguinity
- (b) Sickle cell haemoglobin
- (c) Prenatal diagnosis
- (d) Mt DNA

Section—B

- Define Genetic Polymorphism. Briefly discuss the Balanced polymorphism. 20
- Discuss briefly the Mendel's laws of inheritance with suitable examples. 20
- 8. What is Genetic Counselling ? Discuss the various steps involved in genetic counselling. 20
- Write a brief account on various techniques of human molecular genetics. 20

10. Write short notes on any two of the following :

10 each

(a) ABO blood group system

(b) Human genome project

(c) Bioimformatics

(d) Ethical, Legal and Social Issues (ELSI) in Genetics

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