

MASTERS IN ANTHROPOLOGY (MAAN)

Term-End Examination

December, 2018

MANE-001 : HUMAN GENETICS

Time : 3 hours

Maximum Marks : 100

Note : Attempt any five questions. Choose atleast 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. Discuss briefly on different branches of Human Genetics. 20
2. What is Inbreeding ? Discuss different types of inbreeding in human populations. 20
3. Define Genetic polymorphism. Briefly comment on Balanced Polymorphism. 20
4. Briefly discuss different types of Chromosomal Aberrations in Man. 20
5. Write short notes on any two of the following : 10+10
 - (a) Genomies
 - (b) RNA
 - (c) ABO Blood group system
 - (d) Down Syndrome

SECTION - B

6. What is DNA polymorphism ? Discuss briefly different forms of DNA polymorphism. 20
 7. Discuss briefly the Ethical, Legal and Social Issues (ELSI) in Genetic research. 20
 8. Describe the structure of DNA with suitable diagram. 20
 9. What do you understand by Bio-informatics ? Briefly discuss the tools used in Bio - informatics. 20
 10. Write short notes on **any two** of the following : 10+10
 - (a) Genetic epidemiology
 - (b) Abnormal Haemoglobin
 - (c) Gene therapy
 - (d) Human Evolution as studied by mitochondrial DNA
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