

00039

MASTERS IN ANTHROPOLOGY (MAAN)

Term-End Examination

June, 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 question is 500 words and for 10 marks question is 250 words.

SECTION - A

1. What is Human Genetics ? Briefly examine the different branches of Human Genetics. **20**
2. What is Mitosis ? Briefly comment on various stages of Cell Division with suitable diagrams. **20**
3. Discuss in brief different types of Chromosomal aberrations in man. **20**
4. Briefly examine the Inborn Errors of Metabolism in man with suitable examples. **20**
5. Write short notes on any two of the following in 250 words each : **10+10**
 - (a) X - linked Inheritance
 - (b) Fluorescence in Situ Hybridization (FISH)
 - (c) Inbreeding
 - (d) Abnormal Haemoglobins

SECTION - B

6. Briefly comment on the structure and features of DNA. 20
 7. What is Genetic Counselling ? Briefly discuss how Genetic Counselling is done. 20
 8. What is Ethics in Genetic research ? Discuss Ethical, Legal and Social Issues (ELSI) in Genetic research. 20
 9. What is Bioinformatics ? Briefly comment on any three tools used for Bioinformatics research. 20
 10. Write short notes on **any two** of the following in 250 words each : 10+10
 - (a) Human Genome Project
 - (b) Genetic Epidemiology
 - (c) Genetic polymorphism
 - (d) Biochemical Genetics
-