

2023
M.Sc.
Second Semester
CORE – 05
ANTHROPOLOGY
Course Code: MANC 2.11
(Formal Genetics)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Give a brief account on the history of human genetics. 14
2. Discuss briefly the importance of human genetics and its relation with other sciences. 14

UNIT-II

3. Describe briefly how sex determination is done in humans. Does SRY plays any role in determination of sex? 7+7=14
4. Write notes on the following: 7×2=14
 - (a) DNA
 - (b) Genetics code

UNIT-III

5. Define karyotyping. Discuss the importance of karyotyping in the study of human cytogenetic. 2+12=14
6. Write notes on the following: 7×2=14
 - (a) Chromosomal structure
 - (b) Chromosomal nomenclature

UNIT-IV

7. Discuss in brief the prevalence and nature of Down's syndrome in human population. 14
8. Explain in brief the occurrence of structural cri du chat syndrome in human population. 14

UNIT-V

9. Explain how certain blood types play a role in influencing diseases with special reference to cancer. 14
 10. Write notes on any two of the following: 7×2=14
 - (a) Acrocentric
 - (b) Inversion
 - (c) Polydactyly
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