

2022
M.Sc.
Second Semester
CORE – 05
ANTHROPOLOGY
Course Code: MANC 2.11
(Formal Genetics)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer any five questions from the following:

1. Define human genetics. Briefly discuss the scope and branches of human genetics. 2+12=14
2. Give an account of Watson & Cricks double stranded model of DNA molecule. Do the two strands of DNA helix carry the same genetic information? Explain. 7+7=14
3. How would you differentiate between lethal and sub-lethal genes? Substantiate with proper examples. 7+7=14
4. What do you understand by chromosomal polymorphism? Explain with suitable examples. 2+12=14
5. What do you understand by chromosomal aberrations? Explain in brief the different types of chromosomal aberrations and their effects on human genome. 2+12=14
6. Give a brief account on the development of cytogenetics. What is the core area of interest in human cytogenetics? 7+7=14
7. Define translocation. What are the consequences of translocation on a human gene? Substantiate with proper example. 2+6+6=14
8. Write short notes on any two of the following: 7×2=14
(a) Autoradiography

- (b) Association between blood and malaria
 - (c) Phenylketonuria
 - (d) Turner's syndrome
 - (e) Mosaicism
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