

2022
B.A./B.Sc.
Third Semester
CORE – 7
ANTHROPOLOGY
Course Code: ANC 3.31
(Human Genetics)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions from the following.

1. Define human genetics. Discuss the relevance of human genetics in anthropology. 2+6+6=14
 2. Differentiate between autosomal dominant and autosomal recessive traits with appropriate examples. 7+7=14
 3. Describe the types and structure of human chromosome. 14
 4. Discuss the Watson and Crick model of DNA with proper diagram. 14
 5. What do you understand by chromosomal abnormalities? Explain the clinical features of Down's syndrome. 4+10=14
 6. Discuss the assumptions of Hardy-Weinberg equilibrium. 14
 7. Discuss the significance and application of twin method in understanding human genetics. 14
 8. Write short notes on any two of the following: 7×2=14
 - (a) Polymorphism
 - (b) Lethal alleles
 - (c) Chromosome banding
 - (d) Concept of gene
 - (e) Eugenics
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