

**M.A./M.Sc. Examination, 2015**

**Semester-IV**

**Anthropology**

**Paper – XXV**

**(Human Genetics)**

**Time: 3 Hours**

**Full Marks: 40**

*Questions are of value as indicated in the margin.*

Answer Question No. 6 and *any three* from the rest.

1. What is Karyotyping? Discuss the available banding techniques for human chromosomes. 2+8=10
  2. Briefly discuss the normal chromosomal constitution in man. Illustrate one structural and one numerical chromosomal anomalies in man. 3+3½+3½=10
  3. Briefly discuss the protein synthesis in eukaryotic cell. 10
  4. What is genetic code? Discuss the characteristic features of genetic code. 2+8=10
  5. Discuss the Hardy-Weinberg equilibrium principle. 10
  6. Write short notes on *any two* of the following: 5+5=10
    - (a) Selection
    - (b) PCR
    - (c) Southern and northern blotting
    - (d) Protein folding
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