

M.A./M.Sc. Semester-IV Examination 2017
Anthropology
Paper : XXV (Group-B)
(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 do you understand by normal chromosomal constitution in man? Illustrate one sex chromosomal structural and one autosomal numerical anomaly in man. 4+3+3=10
 2. Discuss on the available techniques in human chromosomes banding. What do you understand by molecular anthropology? 8+2=10
 3. Discuss about the available techniques often, used in molecular biology. Write a brief note on the usefulness of molecular diagnosis in human welfare. 8+2=10
 4. Illustrate how protein synthesis occurs in normal eukaryotic cell. What is translocation? 8+2=10
 5. What is mutation? Write a short note on mutagens. Cystic fibrosis is a recessive condition that affects about 1 in 2,500 babies in the Caucasian population of the United States Calculate the following. 2+3+5=10
 6. Write short notes on **any two** of the following : 5+5=10
 - (a) Selection
 - (b) Genetic isolation
 - (c) Linkage
 - (d) Hardy-Weinberg equilibrium principle
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