

M.A./M.Sc. Examination, 2014

Semester - I

Anthropology

Paper – IV

(Genetics & Populations Biology)

Time: Three Hours

Full Marks: 40

Questions are of value as indicated in the margin.

Answer Question No. 7 and **any three** from the rest.

1. What is heritability? Discuss the methods available to measure heritability in man. 3+7=10
 2. What do you understand by multiple allelism? Illustrate your answer using ABO blood group systems in man. 4+6=10
 3. What is inborn error of metabolism? Explain your answer with concrete examples in man. 3+3½+3½=10
 4. What is normal chromosomal constitution in man? Briefly discuss one sex chromosomal structural and one autosomal numerical anomalies in man. 4+3+3=10
 5. Differentiate Growth, development and maturity. Briefly discuss the factors responsible for growth and development in man. 4+6=10
 6. In which ways the concepts of 'race', 'ethnicity' and 'population' differ? What do you mean by racism? Write a brief account on racism. 3+2+5=10
 7. Write short notes on **any three** of the following: 5+5=10
 - (a) Velocity and distance curve
 - (b) Natural selection
 - (c) Catch-up growth
 - (d) Lethal and sub-lethal gene
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