

**M.A/M.Sc Examination 2018**  
**Semester-I**  
**Anthropology**  
**Course : III**  
**(Biological Anthropology)**

**Time : 3 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 do you mean by banding? Mention in brief the different methods for staining chromosomes in banded patterns. 2+8=10
  2. Who are the early transitional humans? Mention briefly their distribution and distinguishing morphological features. 2+8=10
  3. Define species. Give an account of reproductive isolation mechanism in species divergence. 2+8=10
  4. Define Hardy-Weinberg law. Assume in a group of population 150 individuals are of 'M' blood group, 120 individuals are of 'N' blood group and 125 individuals are of 'MN' blood group. Calculate the frequencies of 'M' and 'N' allele in the population. 4+6=10
  5. Define eukaryote cell. Briefly discuss the structure and function of an animal cell. 2+8=10
  6. Discuss briefly the modern synthetic theory of evolution. 10
  7. Write short notes on **any two** of the following : 5+5=10
    - a) Natural selection
    - b) Applied physical anthropology
    - c) Nucleus
    - d) Primate classification
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