M.Phil 1st Semester Examination, 2019

ANTHROPOLOGY

PAPER —ANT-115 (BA)

Full Marks : 50

Time : 2 hours

The figures in the right-hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

1. Answer *four* questions from the following : 5 × 4

   (a) Write a short note on genetic load.

   (b) Briefly discuss the role of selection in variation and evolution.

(c) Differentiate inbreeding and outbreeding with suitable examples.

(d) Differentiate genome and gene pool with suitable examples.

(e) What is point mutation ?

(f) Write a short note on consanguinity.

2. Answer *two* questions from the following : 10×2

(a) Assuming a population in H-W equilibrium, find the allele frequency of thallasaemia if the birth rate is 1 out of 10,000 normal births. 10

(b) Define polymorphism as given by Ford. Briefly discuss different types of polymorphisms. $2 + 8$

(c) What is inbreeding co-efficient ? Find the value of inbreeding co-efficient of the offspring born from 1st degree cross-cousine mating. $2 + 8$

(*d*) Discuss the application of Dermatoglyphics and DNA studies in forensic sciences.   10

[*Term Paper or Class Seminar* : 10 Marks]

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