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UG/5th Sem/Anth(H)/T/19

2019

B.Sc. (Honours)

5th Semester Examination

ANTHROPOLOGY

Paper - C11T

[Human Population Genetics]

Full Marks : 40

Time : 2 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

1. Answer five questions from the following :

5×2=10

(a) Define genome.

(b) What is inbreeding ?

(c) Define genotype.

(d) Write the concept of co-dominance.

[Turn Over]

(2)

- (e) Define fraternal twins.
- (f) What is communicable disease ? Give example.
- (g) Define Mendelian population.
- (h) What is genetic drift ?

2. Answer *four* questions from the following :

4×5=20

- (a) Briefly discuss random and non-random mating.
- (b) Write a note on forensic anthropology.
- (c) "Inbreeding increases homozygosity"— discuss.
- (d) Illustrate Mendal's 2nd law of inheritance with example.
- (e) Discuss multifunctional inheritance with suitable example.
- (f) What is Hardy-Weinberg principle ? What are the important features of H. W. Principle ?

(3)

3. Answer *one* question from the following :

1×10=10

- (a) Discuss the Twin genetic method in biological anthropology. What is heritability ? 8+2
- (b) Discuss the influence of mutation and hybridization in population variation. 5+5
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