उत्तर बङ्ग
विश्वविद्यालय

'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 5th Semester Examination, 2023

CC11-ANTHROPOLOGY (501)

HUMAN POPULATION GENETICS

Time Allotted: 2 Hours   Full Marks: 40

The figures in the margin indicate full marks.

SECTION-A

1.   Answer any *five* questions from the following: 1×5 = 5

   (a) What is population genetics?

   (b) Write an example of sex-linked inheritance.

   (c) What is allele frequency?

   (d) Define gene flow.

   (e) What is gene mutation?

   (f) Who proposed Hardy-Weinberg Law?

   (g) Define heterozygous.

   (h) What is mode of inheritance?

SECTION-B

2.   Answer any *three* questions from the following: 5×3 = 15

   (a) What are the assumptions of Hardy-Weinberg equilibrium?

   (b) Write a note on founder effect.

   (c) What are the important characteristic features of autosomal recessive trait?

   (d) What do you meant by incomplete dominance?

   (e) What do you meant by multiple allelism?

SECTION-C

3.   Answer any *two* questions from the following: 10×2 = 20

   (a) Illustrate the Hardy-Weinberg Principle with suitable example.

   (b) Briefly discuss sex-linked inheritance in man with example.

   (c) Describe the mechanism for dynamics in gene frequency.

   (d) Discuss briefly about the polygenic inheritance with example.

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