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Q5(c)

Heritability and its estimation

UPSC Civil Services Mains 2024 · Anthropology GS 1 · 10 marks · Mendelian genetics in man-family study, single factor, multifactor, lethal, sub-lethal and polygenic inheritance in man.

9.2 Mendelian genetics in man-family study, single factor, multifactor, lethal, sub-lethal and polygenic inheritance in man.

Facts & figures for this PYQ only.

Numbers move. Confirm the latest Budget, Economic Survey or census round. This sheet is for revision, not a substitute for the model answer.

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R. A. Fisher

Reconciled Mendelian inheritance with continuous traits through additive effects and analysis of variance.

Narrow-sense h^2

Additive genetic variance divided by phenotypic variance; it is the quantity most relevant to selection response.

Twin design

Compares resemblance of monozygotic and dizygotic pairs, subject to equal-environment and representativeness assumptions.

Secular height change

Population means can shift with nutrition and disease even where rank-order variation is highly heritable.

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