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Q5(a)

Polygenic Inheritance

UPSC Civil Services Mains 2023 · 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

Showed that multiple Mendelian factors can generate the continuous variation measured in biometry.

Nilsson-Ehle

Wheat-kernel colour demonstrated additive polygenes as a plant model for quantitative inheritance.

Skin colour

A polygenic, environmentally sensitive cline, not a Mendelian mark of race.

Heritability

The fraction of variance in a given environment associated with genetic difference; it is not a fixed biological fate.

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