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Q3(c)

What is mixed-longitudinal method of studying human growth. Discuss its merits and demerits.

UPSC Civil Services Mains 2023 · Anthropology GS 1 · 15 marks · Human Genetics

9.1 Human Genetics: Methods and Application: Methods for study of genetic principles in man-family study (pedigree analysis, twin study, foster child, co-twin method, cytogenetic method, chromosomal and karyo-type analysis), biochemical methods, immunological methods, D.N.A. technology and recombinant technologies.

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.

<https://wrapexams.com/upsc/mains-answers/anthropology-gs-1/2023/what-is-mixed-longitudinal-method-of-studying-human-growth-discuss-its-merits-and-demerits/>

J. M. Tanner

Set longitudinal velocity, peak height velocity, and tempo as the clinical gold standard of growth study.

Franz Boas

Used anthropometry across ages and environments to show that growth is plastic, a background to later designs.

Distance and velocity

Distance is size attained. Velocity is rate of growth. Mixed designs estimate both with overlap error.

Secular trend

Later-born cohorts may be taller; mixed designs can confound that trend with true age change if joins are naive.

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